10TH ANNIVERSARY ISSUE

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SPECIAL ISSUE

Landscape, Streetscape & Garden Furnishings

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- Stone Carving
- Registers & Grilles
- Paneling & Casework
- Exterior Molded Ornament
- Wood Flooring
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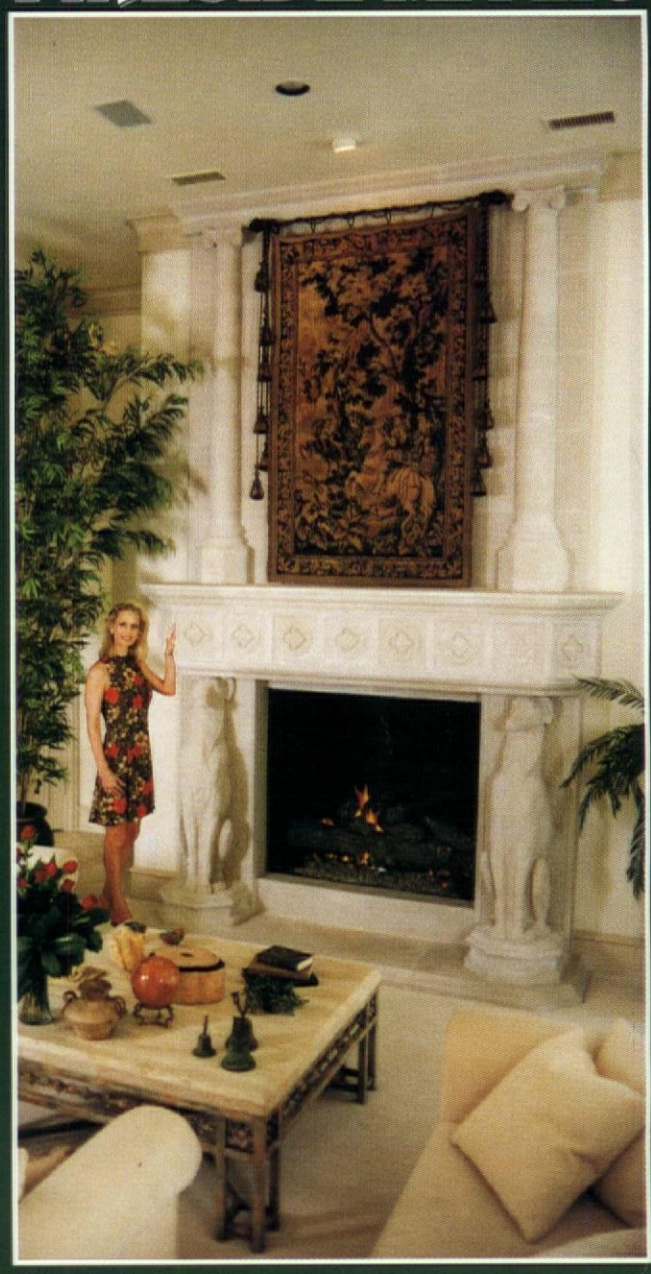

Above is the Guardians fireplace surround.

WRITE IN NO. 8630

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TRADITIONAL BUILDING operates the Internet Gateway to suppliers of products for restoration, renovation, and new construction in traditional styles — with data and links for over 300 companies.

Companies noted with (•) have pre-filed their product literature in the 1998 TRADITIONAL BUILDING CATALOG for your convenience. There's also data about them in the "Suppliers On Line" section of our Website.

ON THE COVER: For Rockefeller Center's 1996 Rose Show (90,000 rose bushes were displayed!), ROMANCING THE WOODS designed, constructed, and installed a double gazebo connected by a 20-ft. bridge. The gazebos roofs are half-round cedar logs and feature the company's signature "antler" finial. *See Romancing the Woods' listing in the Landscapes section of this issue, beginning on page 110, or Write in No. 5010*

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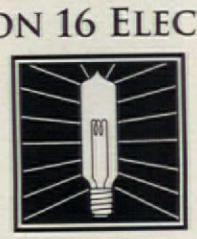

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TRADITIONAL BUILDING *at the 10th Milestone:*

THE CHANGING PARADIGM FOR CREATIVE DESIGN

Because TRADITIONAL BUILDING has thrived during its first ten years, I can't resist the temptation to look back and attempt to find some deeper meaning that would further explain our economic survival. The fact that we've grown from a rather modest 24-pg. black & white tabloid to a hefty 180-pg. 4-color magazine *must* reflect changes that are taking place deep within our culture — changes that are being reflected in the marketplace.

If I had to pick a single trend that is propelling change in our marketplace, it is the new way in which property owners, developers, architects, and other designers have come to regard the 2,000 years of western building tradition to which they have fallen heir.

For much of the 20th century, schools of architecture taught the "Architect as Creative Artist" paradigm. Students were told that each work had to be something identifiably *NEW* — a bold personal statement that bore the indelible mark of the designer's creativity. Considerations of context and how the users of the building would react to the space were subordinate to the designer's display of creative genius. The resulting "in your face" attitude created many of the disasters in the built environment which we are stuck with today.

I was first introduced to this attitude in 1974, shortly after I had founded *The Old-House Journal,* when I received a letter from an architect who informed me in forceful terms that he would *never* subscribe to a journal devoted to restoration. "I won't do restoration work; it's just not creative!" he declared.

However, the changes in public attitudes towards traditional architecture have forced many designers — however reluctantly — to abandon this sort of intellectual posturing and pretension. Fortunately, many other architects, on their own initiative, have risen above their narrow "Architect as Creative Artist" training and have come to embrace a wider view of their mission: what I call "Layers of Meaning" architecture.

Whether it is restoring a landmark structure or designing a new building by interpreting historic precedent, the best of today's design professionals understand they are not solo artists working in isolation in a studio, but rather *stewards of the public environment.* A bad work of art can be hidden in a basement; a building that is inhumane or a bad neighbor is not disposed of so easily.

Though architectural-award juries still tend to reward controversial and outrageous designs for their publicity value — and because the architectural magazines still tend to pick "original" projects for publication — public taste (that is, clients' taste) is swinging ever more forcefully in favor of traditional design. People (including this writer) want buildings that display an awareness of their place in history and which exhibit layers of meaning that touch mystic chords of memory.

Ann Beha, FAIA, our Profile Architect this issue, was selected for the 10th Anniversary Edition precisely because she represents, in our opinion, a stellar example of the new breed of architect. Ann blends restoration and new design synergistically in a single practice — and brings to her work sensitivity and a sense of connection to past, present, and future. Ann, like the best of today's designers, understands, interprets, and enhances layers of cultural and historical meaning.

The great interest being shown in The New Classicism, The New Urbanism, the new Traditional Neighborhood Developments — and increasing *CIVITAS* — is all part of this same humanizing process that has sprung out of the historic preservation movement — and which is now revolutionizing architectural design. TRADITIONAL BUILDING is proud to have played a small role in nudging this process along.

So, while Frank Gehry continues to walk off with many of the big jury-awarded projects with his "Buildings-Are-My-Sculpture" philosophy, in many ways he is becoming a quaint anachronism. By the time TRADITIONAL BUILDING celebrates its 20th anniversary, designers who still insist on creating buildings that are inhumane and lacking in *civitas* will find themselves a beleaguered minority — just as classical architects were 20 years ago!

Clem Labine
Editor & Publisher

CALENDAR OF EVENTS

TRADITIONAL NEIGHBORHOOD DEVELOPMENT. The 1998 conference on techniques for developing traditional neighborhoods is being sponsored by the Seaside Institute, **Sept. 15-18**, at Seaside, Fla. For information, call (850) 231-2421.

MASSACHUSETTS PRESERVATION CONFERENCE. The 1998 Statewide Historic Preservation Conference will be held **Friday, Sept. 25, 1998** at Bunker Hill Community College in Boston, MA. The theme of "Making Connections" stems from the program's focus on strategies for preserving statewide historic and cultural resources. For details, call Bill Steelman at (617) 727-8470.

FRANK LLOYD WRIGHT CONFERENCE. The annual conference of the Frank Lloyd Wright Building Conservancy is being held Sept. 23-27 in Chicago. Among the featured speakers are Vincent Scully and Ken Burns. For more information, fax the Conservancy at (312) 663-1683, or E-mail bldgcons@aol.com.

LANDSCAPE ARCHITECTURE ANNUAL MEETING & EXPO. The American Society of Landscape Architects (ASLA) is holding its Annual Meeting & Expo on **Oct. 2-6, 1998** at the Oregon Convention Center, Portland, OR. For more details on the event, long onto the ALSA web site at www.asla.org

COATINGS FOR ARCHITECTURAL SURFACES – An APT CONFERENCE. Three-day course, **Nov. 5-7**, Williamsburg, VA, has been created for architects, conservators, and other professionals working on historic buildings. The course comes just ahead of the APT Annual Meeting in Williamsburg. For more details, contact Bob Self, architectural conservator at Monticello: (804) 984-9851.

PRESERVATION TRADES WORKSHOP. Three-day hands-on workshop for professionals to enhance their skills in the preservation trades will be held in Gaithersburg, MD, **Nov. 10-12.** Topics include: Brick conservation, stone conservation, timber framing, wood identification, concrete repair, epoxy repair techniques, lime mortar preparation, and much more. For full details, phone (301) 545-0000. Or log onto their websites at www.ptn.org and www.iptw.org.

APT ANNUAL CONFERENCE. Theme for the 30th Anniversary Conference of the Association for Preservation Technology is: Learning from Landmarks: Analysis, Philosophy, and Technology. The buildings, sites, and laboratories of Williamsburg, VA, America's most comprehensive restoration project, will provide a rare opportunity for up-close study of preservation philosophy, laboratory analysis, and field conservation techniques. It will run from **Nov. 7 to 12, 1998**, Williamsburg, VA. Contact: APT, P.O. Box 3511, Williamsburg, VA 23187. Toll-free Fax: (888) 723-4242.

FINE FURNISHINGS SHOW. Handcrafted custom and production furniture and furnishings for the home and office, with emphasis on New England craftspeople, will be on display at the Rhode Island Convention Center, Providence, RI, **Nov. 13-15, 1998.** For more information, call (401) 846-1115, ext. 216.

RESTORATION & RENOVATION – Los Angeles. The West Coast edition of the popular Restoration & Renovation Exhibition & Conference will be held **Dec. 2-3** at the Los Angeles Convention Center, Los Angeles, CA, The event is being held simultaneously with the Los Angeles Buildings & Real Estate Show in the same venue. For more details, call (978) 664-6455, or log onto their Web Site at www.egiexhib.com.

ANNUAL RESTORATION & RENOVATION SHOW. The Annual International Exhibition and Conference for Traditional Buildings, Homes, Design, and Craft – otherwise known as the RESTORATION & RENOVATION Trade Show – will be held in Washington, DC, **Jan. 28-30, 1999**, at the Sheraton Washington Hotel and Convention Center. For more information, call (978) 664-6455, or log onto their Web Site at www.egiexhib.com.

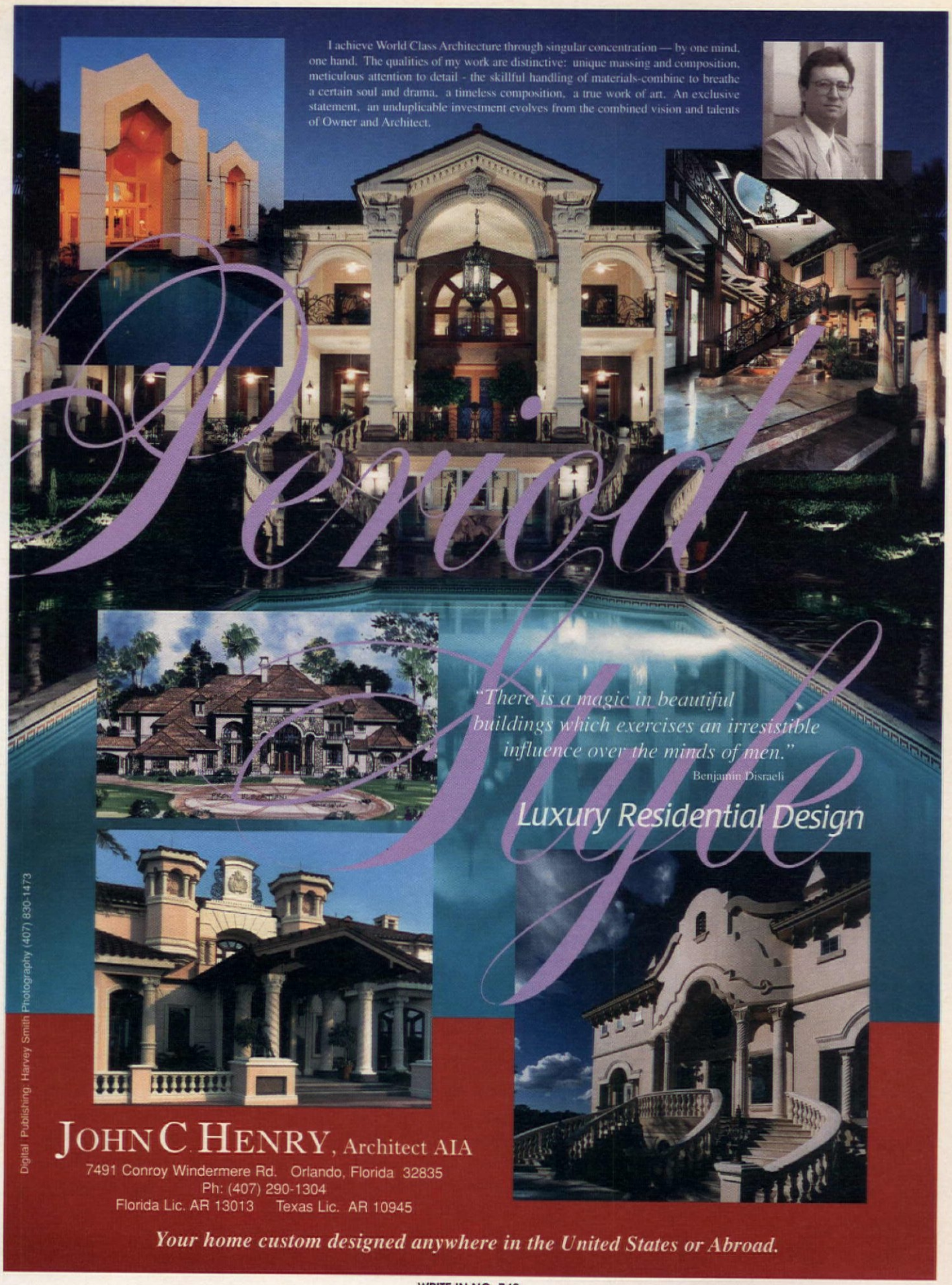
OLD HOUSE FAIR – BOSTON. The Boston Preservation Alliance is sponsoring the 3rd annual Old House Fair, **Feb. 6-7, 1999**, at the Boston Center for the Arts Cyclorama. The event includes over 70 exhibitors plus lectures and demonstrations. For more details, contact Albert Rex at (617) 367-2458, ext. 12.

SPIRIT OF PRESERVATION EXPOSITION. Sponsored by the Saratoga Springs Preservation Foundation, the Show will run **Mar. 26-28, 1999** at the Saratoga Springs, N.Y., City Center. It will feature specialty products, artisans, and resources to assist restoration and renovation of historic structures and environments. National as well as regional suppliers will be exhibiting; various educational seminars and workshops will also be held throughout the exposition. For more details, call Deane Pfeil at (518) 581-8280.

WORKSHOPS FOR SCULPTORS. Hands-On Workshops, running 2 to 5 days long, cover all aspects of moldmaking, carving, and sculptural processes. Workshop topics include: Stone Carving, Welding & Finishing Cast-Metal Sculpture, Wax Preparation & Ceramic Shell Investment, Basic Portrait & Figure Modeling, Patina Processes & Materials, Bronze Casting in the Foundry, Making a Rubber Mold. Call (609) 890-7777 to request the Technical Workshop Catalog.

HISTORIC WALLPAPER COURSES. The American Society of Interior Designers has added two courses on historic wallpaper to its Professional Development Program. "Understanding Showroom Wallpaper" (NCIDQ Registry Service #7105) and "Reproduction Wallpaper, Public and Private" (NCIDQ Registry Service #7106) will be taught by WRN Associates, the leading consulting and installation firm specializing in historic wallpaper. Instructors are Robert M. Kelly, Barry Blanchard, and James Yates. For more information about WRN, call 413-243-3489. For more information on the ASID Professional Development Program and scheduled dates for various courses, contact Barbara Henn at ASID at 202-546-3480, or e-mail at asid@asid.org.

1998 COURSES IN HISTORIC PRESERVATION. The Campbell Center for Historic Preservation, Mt. Carroll, IL, has just released its course schedule for 1998. Courses will be running from May through September; the program in Architectural Preservation includes Architectural Terra Cotta, Accessibility & Historic Integrity, Preservation of Historic Landscapes, and Masonry Cleaning & Preservation. For complete course calendar, call (815) 244-1173.



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PTN NEWSLETTER

PRESERVATION TRADES NETWORK
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E-MAIL: INFO@PTN.ORG

2nd Annual International Preservation Trades Workshop

Gaitersburg, Maryland
November 10 - 12, 1998

Building on the excitement generated by last year's workshop in Frederick, Maryland, the Preservation Trades Network is finalizing plans for the 1998 "Gathering of the Trades". The **2nd Annual International Preservation Trades Workshop, IPTW-98**, is a forum for serious individuals working as professionals in the field of preservation. This is an opportunity for those who use their backs and their hands, as well as their minds, to exchange experiences, skills, and ideas, and to increase the visibility and recognition of the trades within the preservation community.

Those who attended the first workshop can expect even more skilled demonstrators, provocative round table discussions, product "challenges", and opportunities to meet top practitioners of the preservation trades. If you missed IPTW-97, prepare yourself for an event unlike any trade show or conference you ever attended.

Last year the event was planned for a maximum of 325 people and attendance was ultimately 371. This year PTN plans for a maximum group of 500 and will add presenters. However, the event will not able to handle an unlimited attendance. When too many people are involved in a demonstration, some people will be at a viewing disadvantage and/or have trouble asking questions, so we must keep participant-to-demonstrator ratio down. Please register early for this special opportunity.

The principal focus is on demonstration of craft skills and trade techniques in areas such as:

- Brick and stone conservation, concrete repairs, and lime mortar preparation and application
- Use of historic tools, historic millwork, epoxy repair techniques, and wood identification and preservation
- Timber framing, log repairs, blacksmithing and hardware
- Historic roofing methods, windows, and glazing
- Project documentation and architectural fragment collections
- And much more . . .

For an up to date list of demonstrators, presenters and companies that will be involved, please visit the IPTW-98 website at http://www.IPTW.org.

Three new areas of interest are being added this year. The first is a Business Track that will feature speakers, panels, and round table discussions covering: documentation, marketing/image, consulting, qualifications, networking, liability, and personnel/education. Second is a topic not normally covered at preservation conferences—Mothballing, Moving, and Salvage of historic structures. Third is the inclusion of a Commercial Space that will be available for product specific information and demonstrations.

Another highlight of the workshop will be keynote speakers James S. Askins, former National Park Service Preservation Specialist and first Chief of the NPS Preservation Training Center and Clem Labine, Editor and Publisher of the Traditional Building publication.

Be sure to check out and sign up for one of the post event tours, including behind-the-scenes options from the repair projects of the Washington Monument or the Capital Dome to historic sites and special places.

Some of the Co-Sponsors of this years event include the City of Gaithersburg, Drystone Masonry Conservancy, Guild Institute of Stone and Restoration Masonry, Historic Medley District, Inc., Historic Preservation Training Center (HPTC) of the National Park Service, Institute for Preservation Training, Intermountain Cultural Resources Center, Maryland-National Capital Park and Planning Commission, Northeast Cultural Resources Center, Preservation Industry Network/New York, Preservation Resource Group, RESTORE, Smithsonian Institution - Craft Services Division, The GUILD of Fine Craftsmen and Artisans, Timber Framers Guild of North America, and Traditional Building.

IPTW-98 will take place November 10-12, 1998, at the Montgomery County Agricultural Center in Gaithersburg, Maryland. The Agricultural Center offers covered space for intensive "hands on" sessions, easy access to the Washington DC area, and ample lodging and nearby camping facilities. The cost for the Workshop is $300.00 (PTN Member) or $350.00 (Non Member) for Registrations received before September 10, 1998, and $325.00 (PTN Member) or $375.00 (Non Member) after September 10, 1998.

Make plans now to join us for this sharing and learning opportunity. Visit us on the web at http://www.PTN.org and http://www.IPTW.org.

Also look for the PTN Newsletter in future issues of *Traditional Building*, with news on the Preservation Trades Network and International Preservation Trades Workshop. ■

PRESERVATION TRADES NETWORK
is pleased to announce the 2nd
INTERNATIONAL
PRESERVATION TRADES WORKSHOP
NOVEMBER 10-12, 1998
GAITHERSBURG, MARYLAND

Preservation Trades Network will host the 1998 International Preservation Trades Workshop at the Montgomery County Agricultural Center in Gaithersburg, Maryland. The Gaithersburg location will provide attendees with easy access to the Washington, D.C., Metro subway system, offering the opportunity for cooperative activities in the D.C. area, as well as ample lodging and nearby camping facilities.

The cost is $300.00 (PTN Member) or $350.00 (Non Member) for Registrations received before September 10, 1998; and $325.00 (PTN Member) or $375.00 (Non Member) after September 10, 1998.

At this year's three-day workshop 40-plus skilled demonstrators will focus on topics, such as:

- brick conservation
- stone conservation
- timber framing
- use of historic tools
- concrete repairs
- log repairs
- epoxy repair techniques
- historic roofing methods
- blacksmithing and hardware
- project documentation
- historic millwork
- lime mortar preparation and application
- window glass
- sheet metal skills
- architectural fragment collections
- wood identification
- wood preservation

AND MUCH MORE!

This Event will bring together the diverse community of tradespeople in an educational and organizational forum. Attendees will have the opportunity to learn from one another via demonstration, round-table discussion, formal and informal meetings, and general sessions. A separate Commercial Space will also be available for product-specific information and demonstration.

Goals of the International Preservation Trades Workshop include: organizing the preservation trades community, identifying preservation trade leaders and educators; establishing common links with various existing groups; developing a preservation code of practice; establishing a means to recognize outstanding accomplishment in the preservation trades field; and encouraging the dissemination of more trade-related and material-related preservation trade information.

For up to date information on this exciting event, visit http://iptw.org

PRESERVATION TRADES NETWORK (PTN)
P.O. Box 1815, Rockville, MD 20849-1815
Phone: 301-545-0000 Fax: 301-545-0020
WWW Addresses: http://www.PTN.org http://www.IPTW.org

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WIT AND WISDOM AT WORK

Ann Beha Associates focuses on the development of community and culture — and architecture as a vehicle for making both more powerful.

by Kathleen Randall

Wisdom is the principal thing. At least if you believe fortune cookies or the Book of Proverbs. When we profiled Ann Beha in 1993 she said, "We want to show wit and wisdom in our use of American tradition. Come back in five years, and we'll show you our new buildings." We're back, and wisdom — that coveted ability to maximize knowledge and experience — is certainly at work in this practice, along with a clever perception that yields original yet enduring architecture. The Boston-based practice is larger and broader than before, with new design expanding to complement the highly regarded historic preservation and renovation work. You might also say that Ann Beha Associates has fine-tuned its passion for projects through which the mission of cultural and educational institutions can be strengthened by a dose of good architecture.

"Our common denominator is our strong interest in design, art, and culture in America," says Beha of the 25 people that make up Ann Beha Associates. Since starting the firm in 1977, Beha has overseen its growth with a careful eye to bringing not only the best design and technical architects on board, but architects able and willing to wrestle with the issues of cultural identity.

Beha graduated in 1975 with an M.Arch. from the Massachusetts Institute of Technology, waiting only two years before launching a practice. From its start, the practice has had a strong emphasis on historic preservation and renovation, as well as new design based on traditional architectural precedent. This emphasis and Beha's love of the arts carry over to her activities outside the firm. She serves as a board or committee member of the Wang Center for the Performing Arts, The Society for the Preservation of New England Antiquities, MIT, The Museum of Fine Arts, and Historic Massachusetts.

Principal Pamela Hawkes, AIA, has been with the firm since 1978. She brought a strong building-conservation background to the practice with an M.S. Historic Preservation degree from Columbia University and almost a decade of work in the field, in addition to her M.Arch. degree. Thomas Hotaling, AIA, the firm's third principal, received his architectural training at the Polytechnic of Central London and Washington University and has practiced in both the U.S. and England since 1977.

Agents of Change

Ann Beha Associates (ABA) has worked on more than 20 museum projects and a half-dozen prominent performing-arts and education facilities. Clearly, buildings for what we might categorize as traditional institutions of cultural communication and fine arts are a staple of the firm. However, Beha defines "culture" — an oft-abused and misused word — in a broad and inclusive way. Religious buildings, libraries, town halls, monuments, and campuses all have cultural relevance, says Beha. "They can begin a dialog about who people in the world really are; where our overlaps are; where our divides are." The firm's project list includes plenty of projects outside the culture with a traditional "C" category. Brown University's Haffenreffer Museum of Anthropology, the Arizona State Museum, Mount Auburn Cemetery, Trinity Church, the Maine State House, Roycroft Inn, and Vicksburg National Military Park are a sampling.

"We look for projects where we can be agents of change," says Beha. "When an institution wants to make a fundamental shift in direction or strengthen its identity, architecture is a way of confirming that change." An architectural solution that propels such change depends on an accurate understanding of where the institution stands and what it wants to be. Before a single design is drawn, Ann Beha Associates' general rules of research, observation, dialog, and contribution kick in. "The first step is to stand in their shoes; to try and dwell a little bit in their space," says Beha. Only after this step can the designers expect to reach their real goal: a project intimately connected with the intentions of the institution.

Ann M. Beha, FAIA, president and principal of Ann Beha Associates.

A new children's wing, above, and a thoughtful re-landscaping are just one facet of ABA's work with Nantucket's community library. The Nantucket Atheneum's main structure, a charming Greek Revival temple-form building (1847), was in desperate need of renovation. ABA oversaw extensive structural repairs, excavation of a new basement, the introduction of ADA-compliant access, life-safety and HVAC upgrades, and the renovation of the second-floor Great Hall for use as a research center. *(Photo: Hewitt-Garrison)*

National Perspective

Having developed a stronghold in New England, Ann Beha Associates has been working on a national scale for the past decade. By working on projects around the country, Ann Beha Associates is informed about issues and developments in a field — say museums and galleries — and can bring what they have learned and a more national perspective to each new client. While discounting any suggestion that they are experts, Beha believes her firm is conversant about issues beyond architecture and physical space. This is evident in their work with Native American cultures, anthropology, and performing arts, as well as specific building types, such as dormitories, museums, chapels, and galleries. Beha says clients are "delighted that we speak their language so well," and "quite surprised to be getting this kind of help from their design professional."

Leading Institutions

Ann Beha Associates has been work-

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A GUIDE TO FINE STONE CARVING: WHEN ONLY THE BEST WILL DO

In these days of mass-produced ornamentation, synthetic substitutes, cheap cast replicas, and computer-aided design, hand-carved work may seem like an indulgence. However, before writing off the idea altogether, the owner, architect, designer, or specifier should keep a few things in mind about carved stone.

by James R. Marshall

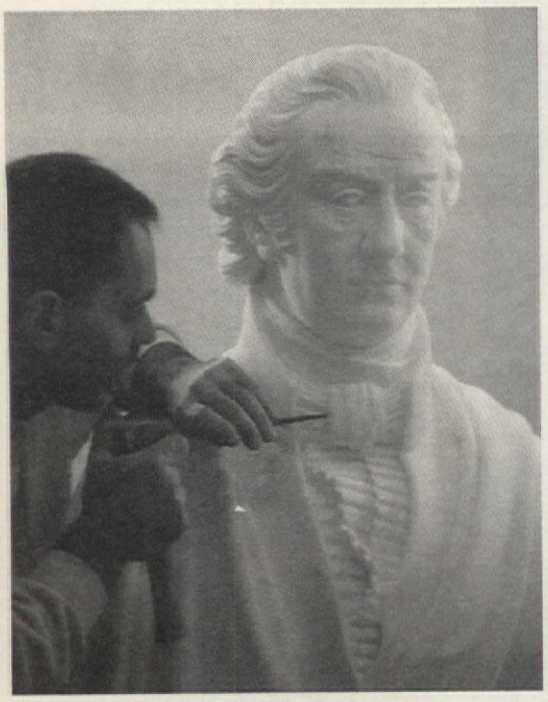
Carved stone. Sounds expensive, doesn't it? Not without reason — carving stone is labor intensive, the materials can be rare and costly, the skills required are those of a top craftsman or even a fine artist. Stone carvers are keepers of a flame that goes back to the very beginnings of humans' efforts to ornament their lives and to recognize the spiritual aspects of their existence. The work of stone carvers helped define the ancient Classical civilizations upon which ours is based; it gave voice to the religious character of the great cathedrals of Europe and the pre-Colombian temples of America; it was an essential ingredient of the Renaissance; and it continues to be an effective medium for artistic, religious, monumental, or ornamental expression up to our own time.

But before dismissing the idea of using up a client's budget on carved stone, learn a few things about it and who's around to fulfill projects that might require it. First, nothing can surpass or even duplicate the look and feel of true hand-carved stone. As sculptor Dan Sinclair points out, "carved stone is good to look at, it's more durable than any of its competitors, and you can choose from a selection of beautiful stones from all over the world." Second, there are a number of highly skilled stone craftspeople and artists in the U.S. who are prepared to work with architects, designers, or owners to come up with the most creative and attractive designs. And, finally, hand-carved stone, while certainly a high-end product, may not be as prohibitively costly as one might think; in fact, for one-of-a-kind pieces, it can be directly competitive with cast stone.

At the top of the stone-carving pecking order are several artists who are classically trained in the fine techniques of stone sculpture, often either in Italy or by Italians. These artists augment their sculpture with commercial commissions for architectural ornament, fireplaces, monuments, and carved figures or portraits. They bring to these commissions not only a high level of skill, but also a fine artistic sensibility and a strong feel for design. Here's a few we talked to in preparing this article:

Dan Sinclair works in his DMS Studios in Long Island City, N.Y. He was classically trained over several years in Pietrasanta, Italy, which is the Mecca for stone carvers and sculptors. Sinclair was working on a white marble Saint Joseph for a church in Passaic, N.J., when we visited him. However, he said, these days the bulk of his work is architectural, with an emphasis on limestone fireplaces, for which there is a strong demand.

Sinclair is preparing a brochure that will offer seven standard fireplace designs, but he much prefers to do custom designs from scratch, working with the client and/or architect to develop and execute an interesting piece. He can produce anything from an elegantly simple Federal design to a reproduction of an 18th-century French Rococo fireplace big enough to stand in. Prices range from $5-6,000 up to tens of thousands. Sinclair prefers an imported French limestone, creamy and fine-grained, over Indiana limestone, which he describes as "looking like cement." Sinclair maintains that he can reproduce anything in Western art sculpture, or create any new piece desired. He works from a clay-to-plaster model (which he calls a "3-D Blueprint") for fine sculpture. Once approved, the model is scaled up in the final stone version.



Gerald Siciliano, Studio Design Associates, Brooklyn, N.Y., puts finishing touches to a bust of Supreme Court Justice John Rutledge for the South Carolina Historical Society. The project was begun by Siciliano's friend, the late Bruce Hoheb, and finished by Siciliano and Rino Gianinni. *Write in No. 187*

Sinclair feels the U.S. taste is not knowledgeable regarding fine stone carving, and cites the impulse to use cast stone or machine-cut stone for architectural purposes. Cast stone is to hand-carved stone as zircon is to diamond, Sinclair says, and computer-aided design just can't produce the subtleties of a skilled carver. The situation wasn't always so bleak in the U.S., he adds, citing the spectacular examples of stone carving that were included in American architecture up to the Thirties, such as the old Customs House in lower Manhattan with its Daniel Chester French sculptures and the New York Public Library on Fifth Avenue. Modernism dismisses this tradition as "a box with ornament," says Sinclair, when in fact the carving is integral to the design.

Dan Sinclair of DMS Studios, Long Island City, N.Y., is carving this white marble "Saint Joseph" for a New Jersey church. *Write in No. 9100*

Gerald Siciliano works in his Studio Design Associates space in Brooklyn. He too was classically trained in Pietrasanta, and learned the nuts and bolts of his trade working with Italian craftsmen there and at Hoheb Studios in New York. He makes periodic trips to Pietrasanta to collect and bring back raw white Carrara marble. Siciliano specializes in custom sculpture, commissioned works, and has recently begun portrait commissions. He finds demand for his work has increased noticeably since he started advertising and established a Web page (www.concentric.net/~gsstudio), and he has a brisk business in such practical applications as fashion mannequins through a company called Bernstein Display.

Siciliano also does some restoration work on architectural detail. This sculptor's current project is a 10-ft. abstract whale sculpture of black granite that will be the centerpiece of a fountain plaza in a new KPMG building for the Mozart Development Corp. in Mountainview, Calif.

For his carved sculptural portraits or his figurative works that feature elements of the human torso, Siciliano starts with a plaster body mold of his subject, which is then cast as a plaster positive, with appropriate manipulation by the sculptor, for approval by the client. Siciliano characterizes this body-cast technique as a modern version of the clay model, and he has successfully used it on models as young as three years. Once the plaster model is acceptable, he transfers it to the stone by means of a pointing system, which uses a triangulation of points. This method allows for a same-scale translation by means of a pantograph while enlarged or reduced end products are

continued on page 12

Shi-Jia Chen (above), of B&H Art-in-Architecture, Brooklyn, N.Y., replaces the bottom half of a huge stone goddess on the roof of New York's Metropolitan Museum. The scaffolding on the Museum (right) marks the spot where the repair is being made. *Write in No. 1009*

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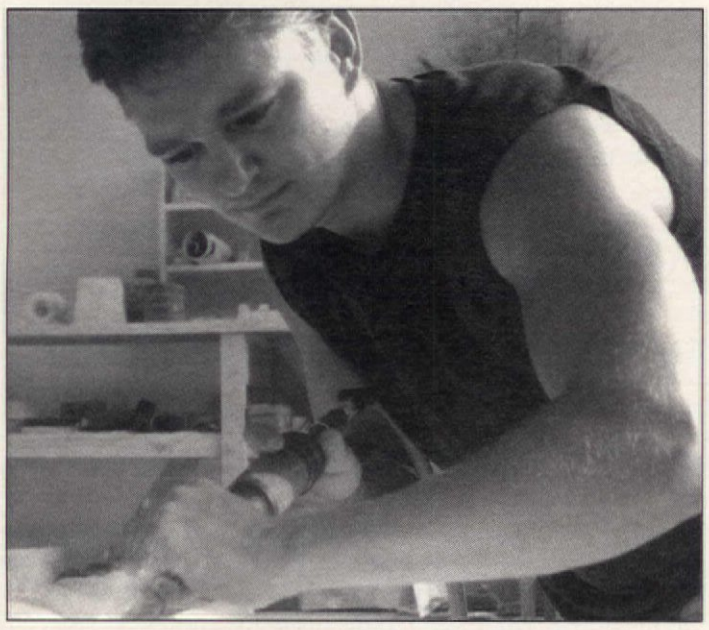

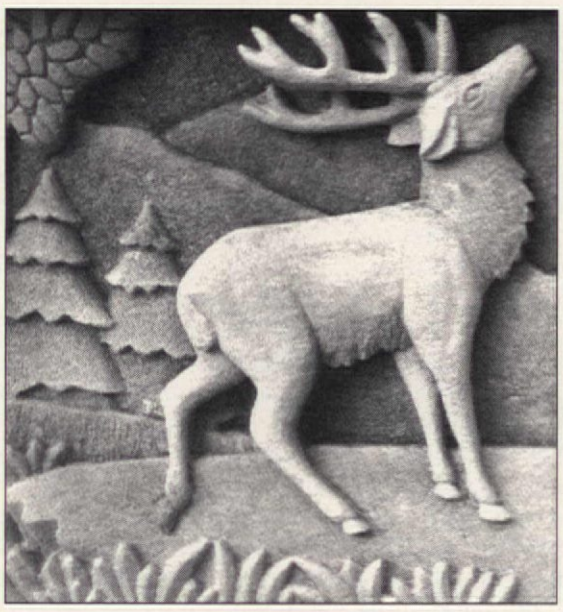

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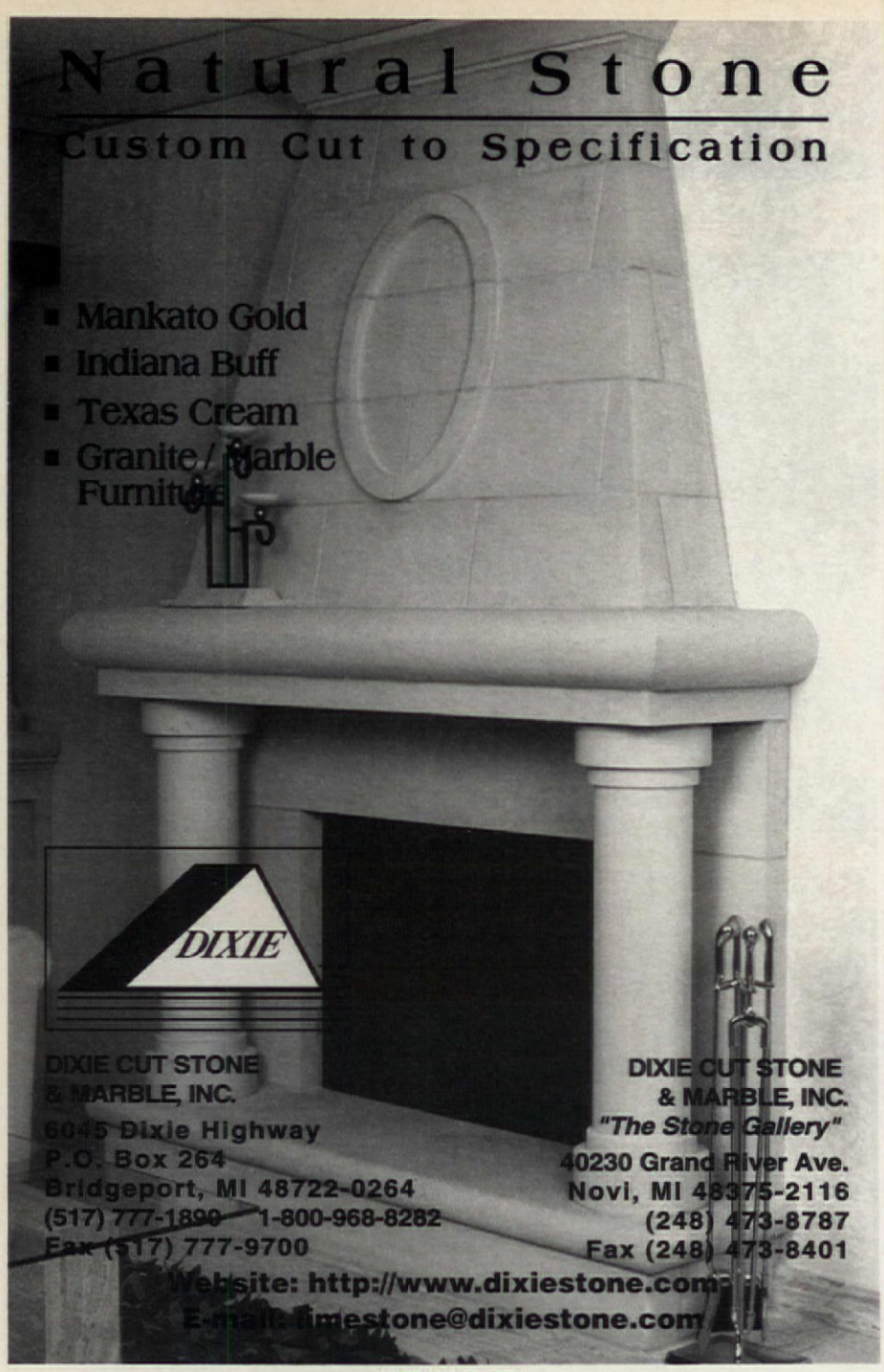

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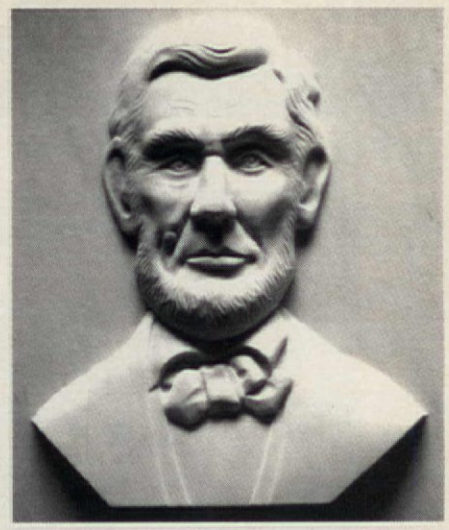
STONE CARVING, continued from page 10

measured with calipers. The real skill of the sculptor comes into play for the last eighth inch of the stone, Siciliano maintains. Among other recent commissions, he created the "Portraits in Anxiety" series for Bristol-Myers Squibb. Prices range from the $5,000-$6,000 level and up into the tens of thousands.



Bust of Abraham Lincoln, carved by Michael Fannin, Stone Carver, of Middletown Springs, Vt. *Write in No. 391*

Shi-Jia Chen came in 1980 from Shanghai to New York City, where he studied sculpture for seven years at the Art Students League. After a few years of working for another restoration company, he established B&H Art-in-Architecture, Ltd. (B&H = Brain and Hand) in 1990, with a studio in Brooklyn and office in Manhattan. The firm offers sculpture from blueprints, photos, or live models in all materials. It will create sculpture based on a client's concept or an original idea. To Chen, the most important thing in a project is the challenge.

Like many of his colleagues, Chen would prefer to be known as a sculptor — his current oeuvre includes several impressive figurative pieces carved from black Belgian or white Carrara marble — but he finds the success of his commercial endeavors leave little time for his own work. Last year, Chen and his assistants finished up a big project to restore 12 large Gothic windows on Manhattan's Grace Church. This year, they're working on another three. This requires close collaboration with the restoration architect, Robert Bates, an associate at Walter Melvin Architects.

Carvers work on limestone architectural elements in the shop of Texas Carved Stone, Florence, Tex. *Write in No. 1055*

While the stone-carving field is highly competitive, Chen notes, B&H is usually able to underbid larger firms. The firm is benefiting greatly from the current economic boom in New York, which is generating ample funds for restoration work. Recent projects will include carving an ornamental boss for the old Cooper Union Building, texturing (to match existing ones) three new stepstones for the Metropolitan Museum's Temple of Dendur, and replacing the lower half of the face of one of the great limestone goddesses on the Metropolitan Museum's roof, restoring the facade of a Manhattan brownstone acquired as part of the Jewish Museum, replacing marble coping and molding for the Smithsonian's Cooper-Hewitt Museum, and restoring part of the stone frieze on Manhattan's historic Trinity Church.

Michael Fannin of Middletown Springs, Vt., got his training working at the Vermont Marble Company under the tutelage of Italian carvers from Pietrasanta. He now offers a wide range of stone carving and sculpting services, and works in most stone materials — Italian marble (finer crystal for portraits), Vermont marble (for most commercial architectural and monumental works), serpentine, limestone, and slate — except granites and sandstones, which require more elaborate safety gear than his studio is equipped with. His business has grown significantly since he started advertising his services, not just in Vermont, but across the country.

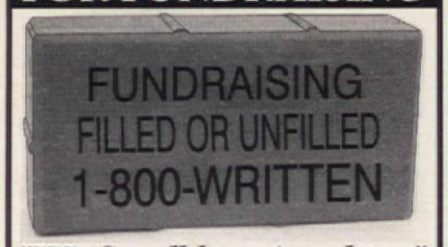
He now maintains a lively web site (www.vermontel.com/~fannin) where you can not only see samples of his work, but also breezy anecdotes to go with them. He offers a brief brochure, but no catalog because each job is a custom one, based on close collaboration with architect and client. Work on such projects as memorials can now be done at wholesale directly on the Internet, he notes.

continued on page 15

Who's on the *SourceList*

For this Special Report on Stone Carving, the Editors contacted 44 companies. From those companies that responded, we listed 27 on the *SourceList* on page 14. Besides studios that do high-end hand-carved stone in the figurative tradition (as mentioned above in James Marshall's article), we've also listed companies that do other types of carving, such as garden ornament, mantels, columns and capitals, fountains, furniture, and signage — in limestone, granite, marble, and other types of stone. Some of the suppliers have catalogs of standard design; others are custom only.

ENGRAVED BRICKS FOR FUNDRAISING



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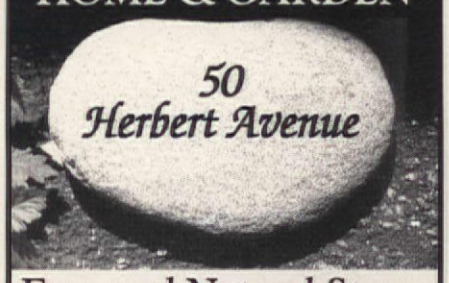

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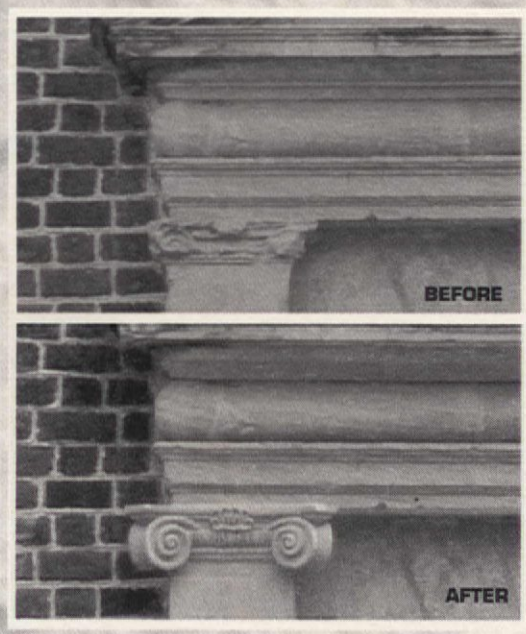

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M40 Crack Injection Grout
M50 Void Injection Grout

restoration mortars — Jahn restoration mortars repair all architectural masonry including brick, bluestone, cast stone, concrete, granite, limestone, marble, plaster, sandstone (brownstone), slate, and terra cotta. Mortars are all one-component, completely breathable, and contain no synthetic polymers.
Products include:
M60 Stucco
M70 Limestone/Sandstone Patching Mortar
M80 Anchor-Setting Mortar
M90 Concrete Patching Mortar
M100 Terra Cotta Patching Mortar
M110 Historic Pointing Mortar
M120 Marble Patching Mortar
M150 Casting Mortar
M160 Hardstone Patching Mortar

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WRITE IN NO. 1009

TRADITIONAL BUILDING'S STONE CARVING *SourceList*

CSI# 04400

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF STONE				CARVED-STONE ELEMENTS					
			Limestone	Marble	Granite	Other	Garden Ornament	Mantels	Columns/ Capitals	Fountains	Carved Ornament	Other
Agrell & Thorpe, Ltd. 319 Dolan Avenue, Dept. TB Mill Valley, CA 94941 415-381-9474; Fax: 415-381-9475	Master carving studio produces a wide range of carved products in wood, stone, and marble; for commercial, residential, and religious buildings. Worldwide experience.	Free	✔	✔			✔	✔	✔	✔	✔	
Archaic P.O. Box 49096, Dept. TB Austin, TX 78765 512-473-8957; Fax: 512-473-8957	Stone masonry elements made for structural or decorative purposes; architectural stonecutting and carving; fountains, fireplaces, statuary, and more.	Free Write in No. 741						✔		✔	✔	Sculpture
Architectural Pottery 15161 Van Buren, Dept. TB Midway City, CA 92655 714-895-3359; Fax: 714-898-5109	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20				Sandstone	✔			✔	✔	Sculpture
B&H Art in Architecture, Ltd. 201 Allen Street, #2C, Dept. TB New York, NY 10002 212-420-1584; Fax: 212-475-3489	Architecture, garden, and fine-art sculpture; design, can follow blueprint, photo, or existing model, live model; interior and exterior, any material and size.	Free Write in No. 1009	✔	✔	✔		✔	✔	✔	✔	✔	Fine-art sculpture
Cantera Especial 15332 Antioch St., #343, Dept. TB Pacific Palisades, CA 90272 800-713-8577; Fax: 818-907-0343	Machine- and hand-carved products made from Cantera and Adoquin stone, limestone, and sandstone quarried from Mexico; can make all types of fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters, and custom products.	Free Write in No. 31	✔	✔		Cantera stone, Adoquin, sandstone	✔	✔	✔	✔	✔	Sculpture, pavers, planters, vanities
Cathedral Stone Products, Inc. 8332 Bristol Ct., #107, Dept. TB Jessup, MD 20794 800-684-0901; Fax: 800-684-0904	Jahn restoration-mortar manufacturer. Compatible patching mortars for the repair of any masonry surface. Cementitious, non-polymer mortars are breathable at any thickness, easy to apply. Standard and custom colors available.	Free Write in No. 9580										Restoration mortar
Creative Sculpture & Restoration 705 SE 11th St., Dept. TB Lee's Summit, MO 64081 816-554-1825; Fax: 816-525-7568	Specialist in conservation and restoration of historic buildings, monuments, sculpture, and fountains. Can recreate damaged or missing areas of terra cotta or stone.	Free Write in No. 2030	✔	✔						✔	✔	Sculpture
DiLeo Studio 504 E. Hampton St., Dept. TB Darlington, SC 29532 843-395-9453; Fax: Same as phone	Relief and fully three-dimensional carving in limestone and marble. Other services include wood carving, rubber moldmaking, and casting of plaster and resin ornament.	Free Write in No. 721	✔	✔			✔				✔	Sculpture
Dixie Cut Stone & Marble, Inc. P.O. Box 264, Dept. TB Bridgeport, MI 48722 800-968-8282; Fax: 517-777-9700	Custom limestone fireplaces; also, carvings, door and window surrounds, balusters, columns, and signs; for commercial, institutional, and residential; stone includes Indiana buff limestone, Texas cream, and Mankato gold.	Free Write in No. 279	✔	✔			✔	✔	✔		✔	Mantels, signage, sculpture, door & window surrounds, balusters
DMS Studios 5-50 51st Ave., Dept. TB Long Island City, NY 11101 718-937-5648; Fax: 718-937-2609	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 9100	✔	✔	✔		✔	✔	✔	✔	✔	Sculpture, church elements
Farrodyne USA, Inc. 1027 W. Jackson Blvd., Dept. TB Chicago, IL 60607 312-226-0772; Fax: 312-226-0806	Company water-carves and water-etches unique murals and other objects out of any stone, up to 12 in. thick.	Free Write in No. 776	✔	✔	✔	Any type of stone or related product						Unusual textures and reliefs for custom elements
Gerald Siciliano/Studio Design Associates 9 Garfield Place, Dept. TB Brooklyn, NY 11215 718-636-4561; Fax: 718-636-4561	Original and reproduction sculpture in the classical tradition for private and institutional clients, in stone or metal.	Free Write in No. 187	✔	✔	✔						✔	Sculpture, relief panels
Imperial Black Marble Co. Hwy. 25E, Dept. TB Thorn Hill, TN 37881 423-767-2888; Fax: 423-531-2954	Quarrier and fabricator of Cambrian Period Black Marble works. Altars, mensa tables, baptismal fonts, sculpture, flooring, and more. All custom work.	Free Write in No. 9740		✔				✔				Sculpture, flooring, ecclesiastical stonework
Intarsia, Inc. 1851 Cypress Lake Dr., Suite B, Dept. TB Orlando, FL 32837 407-859-5800; Fax: 407-859-7555	Designs and manufactures decorative stone medallions, tiles, and accents; 90 catalog designs, all joint-free, grout-free, reground, and polished; rustic honed acid-washed finish available.	Free Write in No. 275	✔	✔	✔	Onyx						Flooring, medallions, signage, table tops
Johnson Atelier 60 Ward Ave. Ext., Dept. TB Mercerville, NJ 08619 609-890-2777; Fax: 609-890-2771	Design consultation, pattern development, custom modeling, enlargements, moldmaking; lost-wax and sand casting for bronze, aluminum, and ductile iron. Fabrication in most metals. Restoration; delivery; installation.	Free Write in No. 7332	✔	✔	✔		✔	✔	✔	✔	✔	Sculpture
Kulleseid Stonecarving 111 Springtown Road, #B, Dept. TB New Paltz, NY 12561 914-255-5346; Fax: 914-736-1759	Hand-cut letters in stone; low-relief stone carving; decorative inscriptions and carvings for garden landscaping, including sundials, heraldry, etc.; cemetery monuments, ledger stones, commemorative plaques, architectural lettering.	Free	✔	✔		Slate	✔				✔	Monuments, signage
LepoWorks, Inc. 4640 Allentown Road, Dept. TB Lima, OH 45807 419-339-5370; Fax: 419-339-2787	Designs private, public, and institutional artwork; interior and exterior works in a multitude of materials, including metal and wood; wood-carving services.	Free Write in No. 1034	✔	✔		Faux marble					✔	Sculpture
Limestone Concept, Inc. 1438 S. Robertson Blvd., Dept. TB Los Angeles, CA 90035 310-278-9829; Fax: 310-278-9651	Hand-carved limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculptures, French limestone slabs & tiles, antique terra cotta. Website: www.limestoneconcept.com	Free Write in No. 5390	✔	✔			✔	✔	✔	✔	✔	Sculpture, balustrades
Maine Millstones P.O. Box 228, Dept. TB West Southport, ME 04576 207-633-6091; Fax: No Fax	Manufacturer of hand-carved traditional granite millstones; all sizes and patterns available.	Free Write in No. 4440			✔		✔					Millstones
Michael Fannin, Stonewright 182 Gulf Road, Dept. TB Middletown Springs, VT 05757 802-235-2412; Fax: 802-235-2040	Hand-carved marble architectural ornament, sculpture, signage; interior and exterior; reproduction and modeling from remnants, or new construction per architectural specs. Also, working in limestone and slate.	Free Write in No. 391	✔	✔		Slate	✔	✔	✔	✔	✔	Monuments, signage, sculpture
O'Sullivan Custom Etched Stone 412 Torrington Road, Dept. TB Litchfield, CT 06759 860-567-0232; Fax: Same as phone	Source for 100% custom low-relief stone carving for indoor and outdoor architectural, commercial, and residential applications, including medallions, accent pieces, heraldry, etc., for flooring, tables, benches, walkways, fireplaces.	Free Write in No. 738	✔	✔	✔	Bluestone	✔	✔			✔	Sundials, signage, patios
Puccio Marble and Onyx 661 Driggs Ave., Dept. TB Brooklyn, NY 11211 718-387-9778; Fax: 718-387-5464	Sculptor, designer, and consultant to design professionals on the uses of marble in architectural and interior applications. Creates custom fireplaces, stairs, bath tubs, and sculpture.	Free	✔	✔	✔	Onyx	✔	✔	✔	✔		Sculpture, furniture
Shannon Stone Co. 1010 Bell Ave., Dept. TB New Haven, IN 46774 219-493-2974; Fax: Same as phone	Hand-carved Indiana limestone; sculptural design and production; matching existing elements; restoration, repair, or replacement; consulting or field service; full-range of sculptural figures and architectural elements.	Free Write in No. 239	✔				✔	✔	✔	✔	✔	Sculpture
Texas Carved Stone, Inc. 6621 Hwy 195, Dept. TB Florence, TX 76527 254-793-2384; Fax: Same as phone	Fabrication of hand-carved ornamental limestone: mantels, entries, fountains, archtectural elements. Carvers are capable of working in any period or style.	Free Write in No. 1055	✔				✔	✔	✔	✔	✔	Sculpture, architectural elements
Trow & Holden 45-57 South Main St., Dept. TB Barre, VT 05641 800-451-4349; Fax: 802-476-7025	Manufacturer of fine stone-carving and sculpture tools; mortar-removal and masonry-restoration tools. Also, pneumatic hammers, including 'Bantam' air tool for detail work; chisels and hand tools with steel or carbide blades.	Free Write in No. 1058										Stone-carving tools
Wickford Stone Carver 550 Ten Rod Road, Dept. TB North Kingstown, RI 02852 401-295-8332; Fax: Same as phone	European-trained stonecarver experienced in all stone types; site work also available. Full line of natural-stone ornamentation and hand-carved lettering. Detailed restoration of any type of stone.	Free	✔	✔	✔	Sandstone	✔	✔	✔	✔	✔	Monuments, signage
Written in Stone 50 Herbert Ave., Dept. TB Closter, NJ 07624 800-WRITTEN; Fax: 201-750-0099	Specialist in engraving fund-raising bricks, garden stones, and boulders.	Free Write in No. 767	✔	✔	✔	Natural stone	✔					Fund-raising bricks

STONE CARVING, continued from page

Fannin does a wide range of restoration projects — churches, cemeteries, commercial buildings — and offers not only carving but also the masonry work to support it. A recent project was the complete restoration from bottom (excavating the foundations) to top (carving keystone ornaments and column caps) of an 1820s Vermont bank building. Fannin works with one or two assistants, depending on the job, but does all the carving himself.

Of course, it's not necessary to engage a classically trained sculptor to get high-quality stone carving. A number of firms offer good solid craftsmanship by professional stone carvers. Here's a selection:

Texas Carved Stone of Florence, Tex., offers a range of custom-made, high-end, hand-carved stone architectural elements. Demand for these products is high, according to Bob Ragan, the company's head carver and co-owner with Mary Condon. Largely self-taught, Ragan learned his craft first as a bricklayer and stonemason in Oklahoma and Texas and then as the carver at a stone mill near Florence (Texas, that is). The company's projects are mostly new installations, but the firm does about one significant restoration project per year. An example of the latter was restoring the capitals on the 20-ft. columns of the Hill County courthouse in Hillsboro, originally built by Texas architect W.C. Dodson; the company also took part in the renovation of San Antonio's city hall, recreating intricate carved decorations.

Texas Carved Stone does many fireplaces, frequently reproductions of antiques that are patinated after carving, as well as other architectural elements, such as door surrounds and some statuary. Ragan favors mainly Texas limestone for his work, including Cordova creme, a stone quarried in central Texas that is soft and colored tan or white and contains scattered marine fossils; Lueders limestone, a strong gray stone for exteriors, a Florence Texas limestone that resembles unpolished white marble, and West Texas creme, which has a porous grain and comes in pink, coral and champagne.

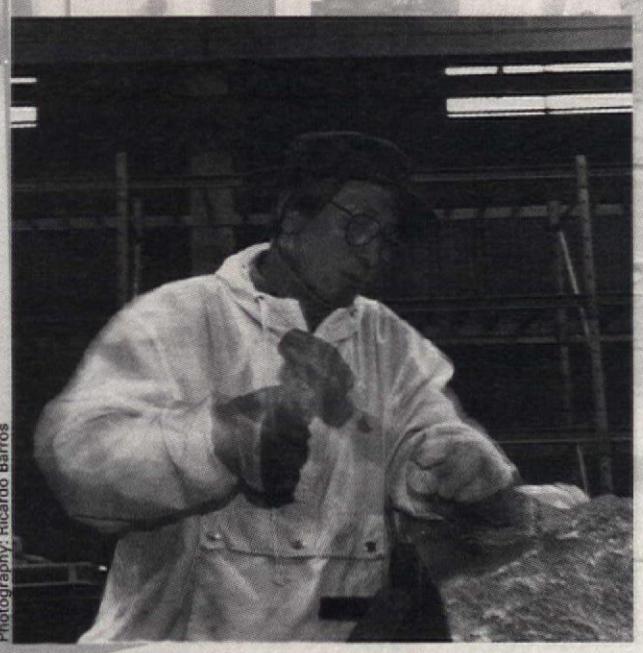
The company has eight people working in its shop. All the work is hand carved, using pneumatic hammers; the company does not do its own installations, which require a good mason. The usual process is for Ragan to work closely with the architect and the client, possibly on their own design ideas, or to select mix-and-match designs from the company's 30-pg. photo collection. Prices range from little more than $1,000 for a simple stone surround up to $50,000 or so for something truly baronial.

Johnson Atelier of Mercerville, N.J., is a large sculpture studio and foundry established by the sculptor Seward Johnson. The company has recently added a stone-cutting division under the direction of Walter Dusenbery, a stone sculptor who worked as an assistant to Isamu Noguchi and who maintained his own studio in Italy for thirty years. This division has been 2-1/2 years in the making and has been open for business for the past year; the goal, according to Dusenbery, is to have "the best stone-carving facility in America." The company has acquired the most advanced machinery, he notes, such as a CNC (Computerized

continued on page 17

NEW TECHNOLOGIES ARE EMERGING, SHAPING THE FUTURE OF SCULPTURE. AT THE JOHNSON ATELIER, THE FUTURE IS NOW.

There are timeless techniques for sculpture that have been passed down through generations. You live for those techniques and the creative feeling that they evoke. But you also recognize the need to explore what is new.



Photography: Ricardo Barros

The Stone Division at the Johnson Atelier combines the latest advances in stone-working technology with exceptional human performance. Whether you cherish centuries-old techniques of hand carving or prefer embracing the future with state-of-the-art, three-dimensional sculpting machines, the Johnson Atelier can meet your sculptural and architectural needs with personalized attention and competitive pricing. Call us today at 609-890-2777.

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WRITE IN NO. 7332

TROW & HOLDEN INTRODUCES

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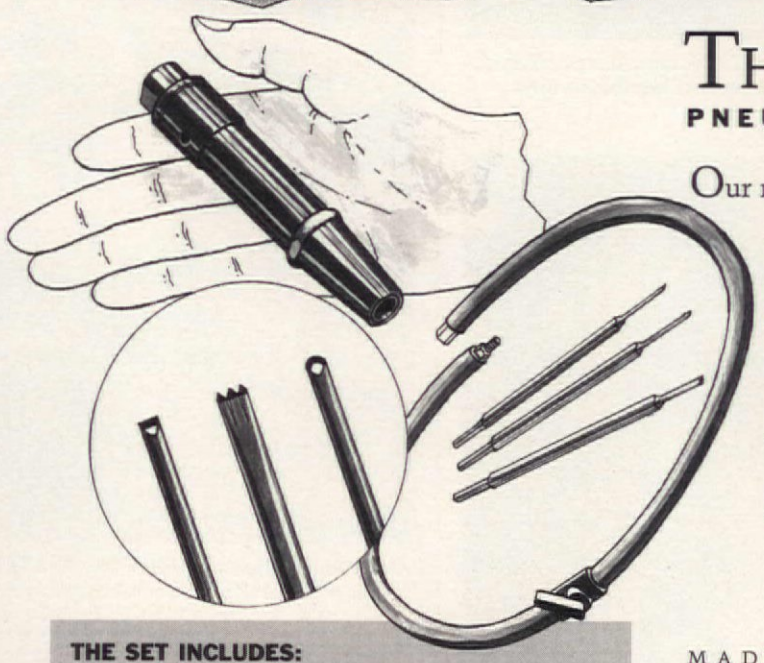
PNEUMATIC STONE CARVING SET



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Barre Bantam sold separately for $245

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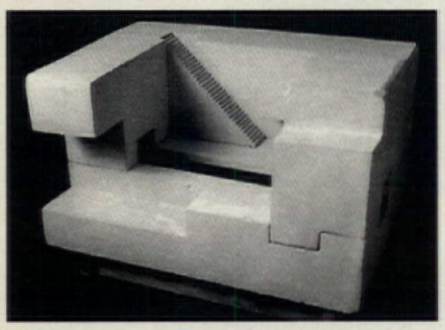
WRITE IN NO. 1058

STONE CARVING PORTFOLIO

For more information on these companies, consult the SourceList on page 14.

An entire pride of leonine carvings has been produced by the artisans of CATHEDRAL STONE PRODUCTS. *Write in No. 9580*

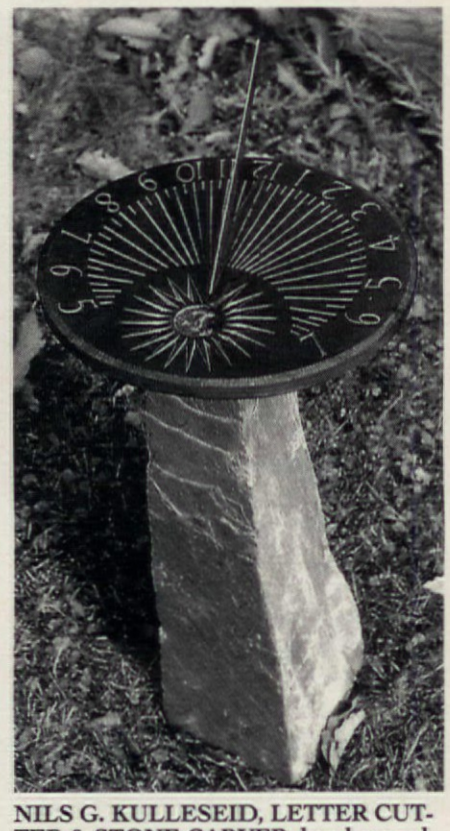


Stone carver Tony DiLeo of DILEO STUDIO created this sculpture, "The Terminal," out of Indiana limestone. *Write in No. 721*

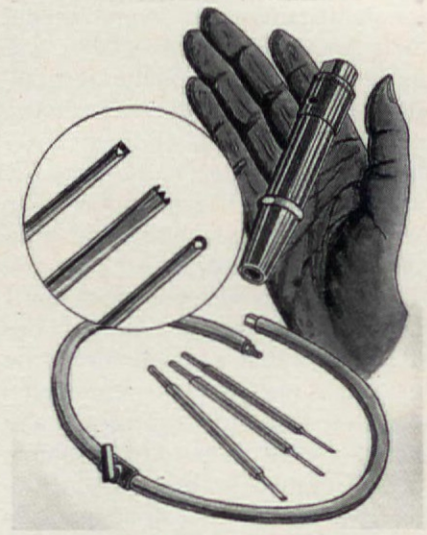
This dynamic horse, sculpted by the experts of CANTERA ESPECIAL, looks like it's ready to leap right over its own pedestal. *Write in No. 31*

Not all lunettes are windows; SHANNON STONE demonstrates that some of the loveliest ones are hand-carved in Indiana limestone. *Write in No. 239*

Custom, hand-carved limestone from the artisans of LIMESTONE CONCEPT can take the form of mantels, columns, statuary, balustades — and fountains, such as the dramatic example shown here. *Write in No. 5390*



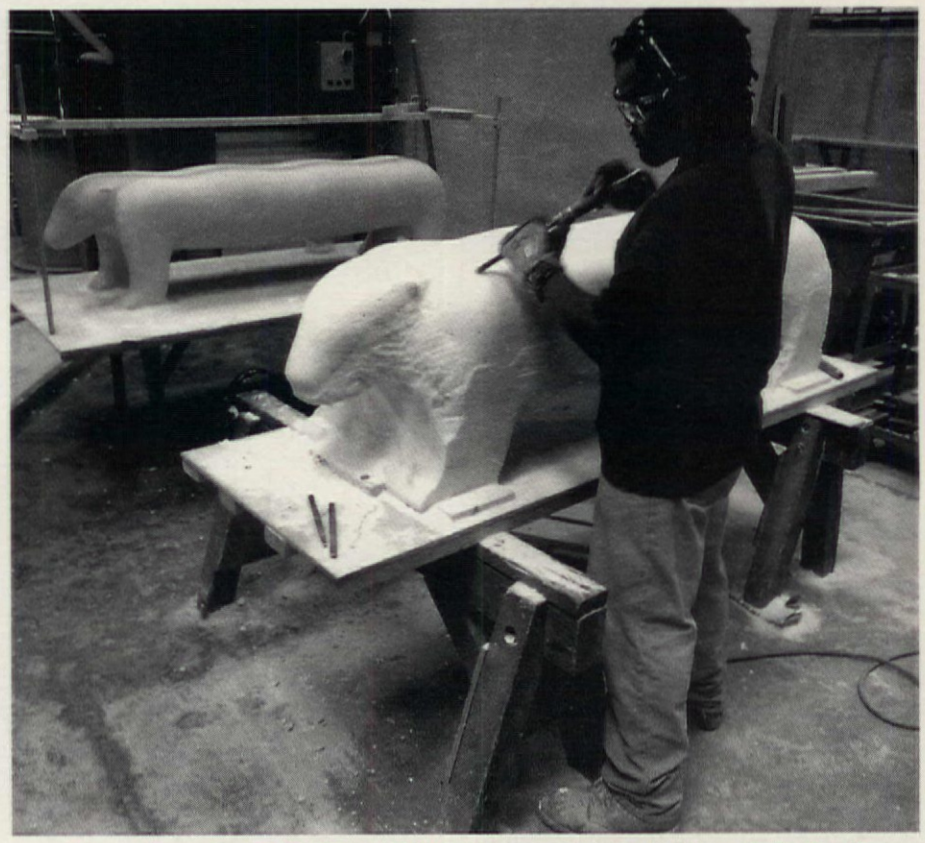
NILS G. KULLESEID, LETTER CUTTER & STONE CARVER, hand-carved this sundial in black slate; the gnomon is brass.



An innovation from TROW & HOLDEN CO. is the "Barre Bantam," a lightweight, pneumatic stone-carving tool. *Write in No. 1058*

With over three generations of experience, WRITTEN IN STONE and American Sandblasting & Restoration engraves fund-raising bricks and stones, and sandblasts anything. *Write in No. 767*

Hand-carved sculpture from D.M.S. STUDIO ranges from mantels and architectural ornament to dramatic statuary such as this confrontation between a lion and a snake. *Write in No. 9100*



A craftsman from the JOHNSON ATELIER Stone Division fashions Judy Kensley Nickie's "Polar Bear Bench." *(photo by Ricardo Barros) Write in No. 7332*

Instant Access to Product Literature for STONE CARVING

If your office qualified to receive the 1998 TRADITIONAL BUILDING CATALOG, you'll find prefiled and indexed product literature there for the following suppliers of CARVED STONE:

B&H Art-In-Architecture • Dixie Cut Stone & Marble
Johnson Atelier • Shannon Stone Co.

STONE CARVING PORTFOLIO

MICHAEL FANNIN, STONEWRIGHT, carved this mighty bracket in Imperial Danby Marble. *Write in No. 391*

The facade of the brownstone that became the annex to New York City's Jewish Museum received an expert restoration from craftsmen at B&H ART-IN-ARCHITECTURE who designed and carved a replacement frieze in the window bay and carved and replaced brownstone lintels, moldings, and window jambs. *Write in No. 1009*

Fine ornamental carving, such as this detail from a mantel, is one of the specialties of TEXAS CARVED STONE, INC. *Write in No. 1055*

O'SULLIVAN CUSTOM ETCHED STONE & GLASS executed this powerful dragon design on 6-ft.-x-6-ft.-x-1-1/2-in. bluestone as the center medallion of an outdoor patio. The flowers in each corner are the Chinese symbols for the four seasons. *Write in No. 738*

This thoughtful character is only a detail from the massive (4-ft.-x-140 ft.), faux-marble bas-relief carved by LEPOWORKS for the lobby entrance of St. Rita's Hospital in Lima, Ohio. *Write in No. 1034*

Gargoyle production is just one of the stone-carving strengths of DIXIE CUT STONE AND MARBLE. *Write in No. 279*

GERALD SICILIANO's gift for fashioning the human form stands out even in a stylized representation such as this fragmentary bust. *Write in No. 187*

STONE CARVING, continued from page 15

Numerical Control) cutting machine and a laser-digitizing machine for obtaining an image that can be manipulated by computer from a sculptor's model.

Demand for their services has grown so rapidly, Dusenbery says, that already they are building another structure for expansion. He believes the facility is filling an unmet need for a studio that can do carving in any stone at any scale. They are filling a niche market, he adds, with all pieces made to order, for architects, sculptors, and designers who desire high-quality creative work.

There are seven people working in the Johnson stone-carving division, and their work includes sculpture, carved stone, and high-end architectural detail. Head of Stone Carving is Christoph Spath, who trained in the German apprenticeship system. The Division also has its own apprenticeship program. Projects range from the prosaic, such as large stone bases for statues, up to the statues themselves. Materials include alabaster, marble, limestone, and granite. The studio has done some restoration work and is anxious to expand in that direction, Dusenbery notes.

This summer, the shop has been working with sculptor Gerald Siciliano on his black granite ten-foot abstract whale. This project will be hand-carved, according to Dusenbery, using "Renaissance methods" to reproduce the sculptor's creation. Siciliano began with a selection of small plaster sketches. When he and the client agreed on the design, he scaled up the small model through a series of styrofoam versions until he achieved full scale. The Johnson craftsmen then use the classic pointing technique to hand-carve the design into stone. A project like this is easier to produce via hand-carving than machine, Dusenbery notes. Even when machine-carving can be used on architectural pieces, such as a series of column capitals, Dusenbery points out, high-quality work still requires hand-finishing.

Cantera Especial of Pacific Palisades, Calif., has a group of Italian and Mexican carvers working in both Mexico and California. The company was founded by Larry O'Rourke, a landscape architect who became fascinated by carved stone. The firm originally specialized in Mexican stone products, using the sedimentary Cantera, or Adoquin stone, which contains more aggregate than Indiana or Texas creme limestone. Today, however Cantera offers a whole range of stones — travertine, marble, sandstone, limestone, granite, etc. — from all over the world — Mexico, the U.S., Italy, Brazil, India, Turkey, and Greece — that O'Rourke has found by his own research and travel. The company will mail samples of its stone offerings to prospective customers, and also has a photo catalog of its designs and concepts.

Cantera offers everything in stone from machine-cut pavers and slabs to carved architectural elements. Everything is a custom job, according to O'Rourke, and the company works closely with the architect, contractor or builder to spec, design and price the project. Cantera maintains in-house architectural expertise for this purpose. The company does work for both new installations and restoration projects. Much of the restoration work is duplicating or replacing elements — fireplaces, finials, etc. — in the older houses in Los Angeles, Belair, and Newport Beach, but the company also has a project underway for an extensive renovation of a bank building in Switzerland. O'Rourke also maintains that the price of natural stonework is not out of line with cast stone, particularly for one-of-a-kind pieces. One of Cantera's clients is taking a novel approach to a new house in Hollywood: The front facade — columns, balusters, window surrounds, stairs, and quoining — features carved natural stone, while the other three faces use cast stone, or even foam, for the same elements.

Larry O'Rourke sums up the appeal of cut stone by observing that it is part of what he sees as a return today of the Renaissance aesthetic, a new appreciation for the European classical roots of architecture, and a reaction against the sterile design of the 1950s and '60s. ■

James R. Marshall was trained as a chemical engineer and spent more than two decades in the environmental field working for the Environmental Protection Agency of New York City and then the federal government. He is now an independent consultant who spends much of his spare time pursuing drawing and sculpture.

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WRITE IN NO. 1034

SourceList 18
Portfolio 20

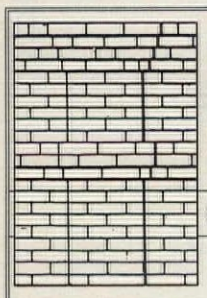
BUILDING BLOCKS OF ARCHITECTURE

The humble fired-clay brick hasn't changed fundamentally since Roman times. However, Vitruvius would be envious of the range of sizes, finishes, and textures available to today's specifier.

What could seem less special than the humble, ubiquitous brick? Yet, as the supplier *SourceList* below suggests, there's an incredible variety of types and shapes available to the professional doing renovation or new construction work. From the relatively small number of suppliers the Editors have chosen to showcase below, these are just *some* of the products and services you can find (besides common face brick) for your masonry needs: special architectural shapes, hand-molded brick, custom matching services, waterstruck brick, engraved brick for fundraising, antique clinker brick, and lime putty for making "soft" mortars for historic restoration and other specialty masonry projects. There's even a sculptor who carves sculptural bas-relief murals in brick for a special architectural accent.

One of the most vexing masonry problems a designer or contractor can face is the need to match existing brick — either for patching or for an addition to an older building. Several of the suppliers below have extensive experience in the custom matching of color, texture, and shapes of brickwork from the 18th century up through the mid-20th century. You'll also find several suppliers of materials for masonry restoration, along with some experienced masonry restoration contractors.

To compile this sampling of today's market for specialty brick and related masonry materials and services, the Editors surveyed 55 companies selected from our supplier database. From the responses, we selected the 15 companies listed below as providing a representative range of products and services. ■



TRADITIONAL BUILDING'S *SourceList* on SPECIALTY BRICK & BRICK RESTORATION

CSI# 04211

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	Special Shapes	Custom Matching	Pavers	Hand Molded	Clinker	Hand Carved	Inscribed	Specialty Mortar	Brick Sculpture/ Murals	Other
Ahrens Chimney Technique, Inc. 2000 Industrial Avenue, Dept. TB Sioux Falls, SD 57104 800-843-4417; Fax: 605-335-1525	A full range of chimney-restoration services, from chimney relining to minor tuckpointing through a national dealer network. Supplies chimney and masonry products, tools, and consultation services. Lining systems UL listed.	Free Write in No. 2440										Restoration services
Apple Restoration & Waterproofing, Inc. 132 Bedford Ave., Dept. TB Brooklyn, NY 11211 718-599-5055; Fax: 718-599-3588	Field specialist in exterior-masonry, stone, slate, terra-cotta, and copper cleaning, restoration, repair, and waterproofing. Offers rigging and installation services.	Free Write in No. 400										Restoration services
Belden Brick Co. 386 Park Ave. South, Suite 801, Dept. TB New York, NY 10016 212-686-3939; Fax: 212-686-4387	Supplies specialty brick, including pavers, architectural shapes, thin brick, face brick, glazed brick, plus hand-molded, wood-molded, extruded, and water-struck brick. Also, terra-cotta ornament and architectural concrete.	Free	✔	✔	✔	✔	✔	✔	✔	✔	✔	Glazed brick, thin brick
Brickyard Inc., The P.O. Box A, Dept. TB Harrisonville, MO 64701 816-380-3366; Fax: 816-887-5757	Source for authentic, antique clinker bricks with highly distinctive shapes, colors, and textures, ideal for constructing hearths and chimney facings. Will match samples.	Free Write in No. 3960					✔					
Cathedral Stone Products, Inc. 8332 Bristol Ct., #107, Dept. TB Jessup, MD 20794 800-684-0901; Fax: 800-684-0904	Jahn restoration-mortar manufacturer. Compatible patching mortars for the repair of any masonry surface. Cementitious, non-polymer mortars are breathable at any thickness, easy to apply. Standard and custom colors available.	Free Write in No. 9580								✔		
Fund Raisers, Ltd. P.O. Box 8836, Dept. TB Boise, ID 83707 800-288-6447; Fax: 208-377-9080	Custom engraved and infilled bricks, tiles or stone for community fundraising.	Free Write in No. 42			✔			✔				Engraved tiles
GenLime Group, L.P. Box 158, Dept. TB Genoa, OH 43430 800-537-4489; Fax: 419-855-4602	Historic lime mortar, 'Niagara Mature Lime Putty,' fully-slaked, screened, and aged, ready for immediate use. Company resources available on mortar history, repointing, plaster, and stucco applications.	Free Write in No. 450								✔		
Old Carolina Brick Co. 475 Majolica Road, Dept. TB Salisbury, NC 28147 704-636-8850; Fax: 704-636-0000	Company manufactures solid brick, hand-molded and then fired with coal to provide the bisques and unique colors identical to those seen in brick made over 200 years ago. Line of more than 20 different styles; custom work also done.	Free Write in No. 3130	✔	✔	✔	✔	✔	✔	✔			Glazed brick, rubbed brick
Old Virginia Brick Co. Box 508, Dept. TB Salem, VA 24153 540-389-2357; Fax: 540-389-4716	Traditional wood-molded bricks in pavers, face brick, special shapes, and arches for walls, terraces, patios, or any other outdoor area; custom shapes, glazed headers.	Free	✔	✔	✔							
Polymeric Systems — Masonry Restoration 723 Wheatland Street, Dept. TB Phoenixville, PA 19460 800-228-5548; Fax: 610-935-7123	Instacrete is a hand-mixable epoxy putty that sets rock-hard in minutes; used for patching, anchoring, sealing, and re-pointing. Repair epoxy for masonry.	Free Write in No. 5948										Masonry-repair epoxy putty
Profit Resources 2861 Walnut Street, Dept. TB Denver, CO 80205 800-644-0927; Fax: 303-294-0163	Custom-engraved and -infilled bricks, tiles, or stone for community fund-raising associations; also, gilding and painting on glass.	Free Write in No. 4500			✔			✔				
Roberson Brick Murals P.O. Box 2307, Dept. TB Washington, NC 27889 919-946-1193; Fax: Same as phone	Source for brick murals and sculpture; custom sculpted brick.	Free	✔					✔			✔	
Vermont Brick Manufacturing Box 1025, Dept. TB Melrose, MA 02176 781-665-7800; Fax: 781-662-8209	Producer of traditional waterstruck brick, available through their distributors. Call for nearest distributor. Large stock of clear-burn and flashed facebrick, pavers, and shapes available.	Free Write in No. 765	✔	✔	✔	✔	✔					Waterstruck brick
Whitacre-Greer 1400 S. Mahoning Ave., Dept. TB Alliance, OH 44601 330-823-1610; Fax: 330-823-5502	Manufactures bevel-edged, dry-pressed brick pavers in permanent earth-tone colors with high freeze-thaw resistance.	Free Write in No. 505			✔							Cobbled
Written in Stone 50 Herbert Ave., Dept. TB Closter, NJ 07624 800-WRITTEN; Fax: 201-750-0099	Specialist in engraving fund-raising bricks, garden stones, and boulders.	Free Write in No. 767							✔			

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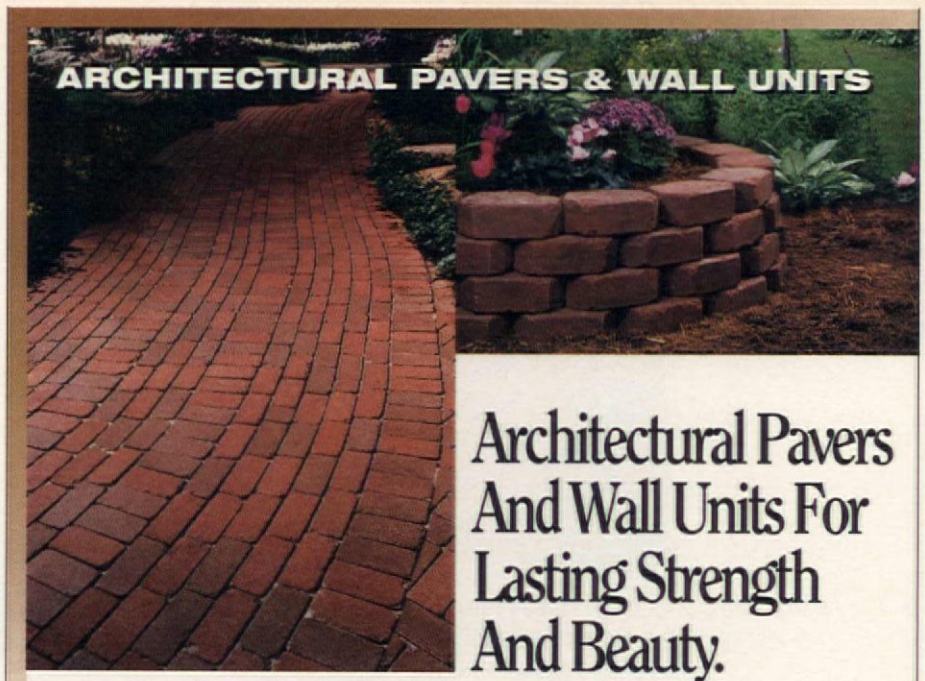

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Email: arwny@aol.com
http://members.aol.com/arwny/index.htm

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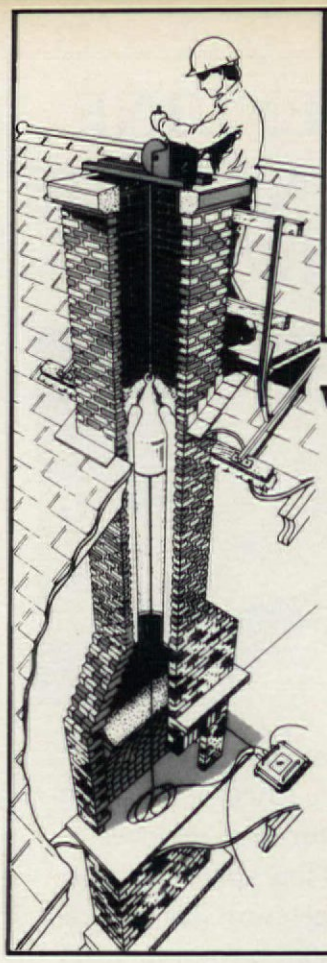

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SPECIALTY BRICK & RESTORATION PORTFOLIO

For more information on these companies, consult the SourceList on page 18.

Along with its stock line, BELDEN BRICK can also manufacture paving brick that matches or complements virtually every type of face brick the company produces.

Traditional brick manufactured by OLD VIRGINIA BRICK can, among other things, replicate the elegance of 18th-century Georgian architecture.

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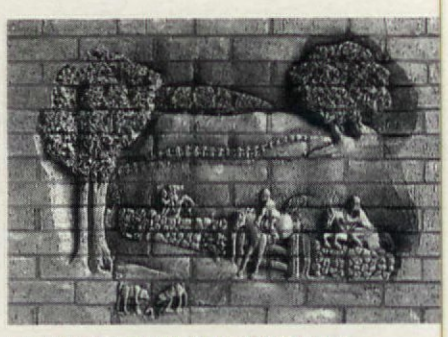
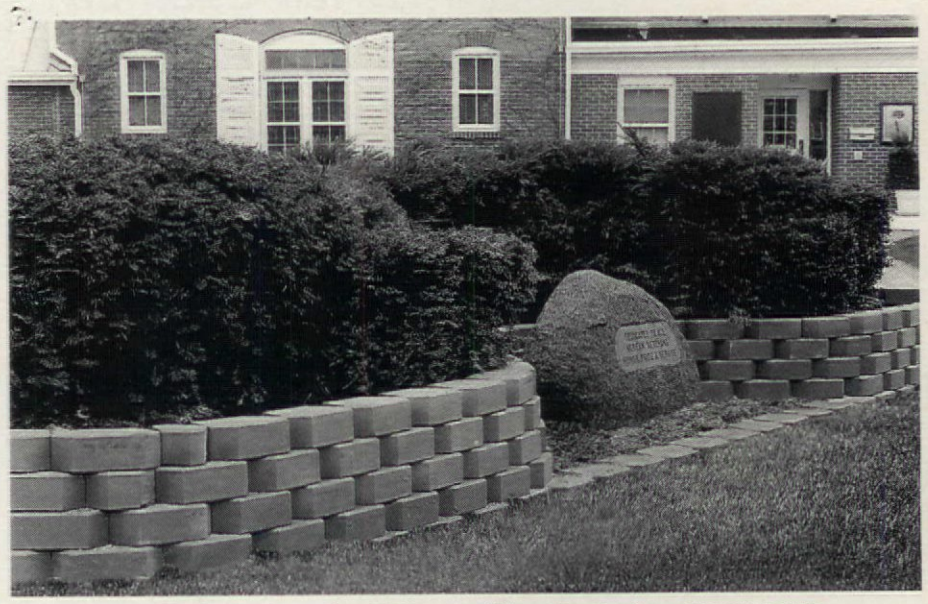
WRITE IN NO. 42

Along with their cementitious system for relining old chimneys, the experts of AHRENS CHIMNEY TECHNIQUE also offer courses on masonry repair and restoration. *Write in No. 2440*

The sale of donor bricks, fashioned by FUND RAISERS, LTD., raised over $65,000 for the Coors Field baseball stadium in Denver, Colo. *Write in No. 42*



ROBERSON BRICK MURALS can transform a brick wall into a handsome and imaginative relief sculpture.



A retaining wall of smooth-surfaced Claystone™ wall units from WHITACRE GREER can be laid to a maximum height of 32 in. *Write in No. 505*

The possibilities for genuine handmade brick from OLD CAROLINA BRICK COMPANY include fireplace-facing kits, such as this floor-to-ceiling model, #501. *Write in No. 3130*

Antique clinker brick obtained from THE BRICKYARD brings character and history to what would otherwise be one more brick wall. *Write in No. 3960*

To receive FREE Product Literature, use the enclosed postcard or the coupon on page 178.

SourceList 22
Portfolio 24-25

HEATING WITH PERIOD STYLE

Whether you're looking for antique Victorian cast-iron radiators or new heating systems that will fit unobtrusively into a period room, you'll find the sources all here. One of the country's leading experts on Hydronics (heating systems that work with steam or water) shares the results of his extensive survey of today's market.

by Dan Holohan, *Dan Holohan Associates*

Old cast-iron radiators, very often in Victorian splendor, stand guard over the chills of winter, and many homeowners hate to part with these beauties. Other homes have heating systems that literally disappear beneath the surfaces of the rooms as radiant panels. Just about anything is (and always has been) possible with hydronics.

Older cast-iron radiators, the sort used on "one-pipe" steam heat, have nipples only across the bottom portion of the individual radiator sections because steam is lighter than air. When the steam enters the bottom of a radiator it flows upward into the radiator sections, pushing the air from a vent.

Hot-water radiators, on the other hand, have nipples across both the upper and lower portion of the radiator sections. Even though hot water rises, it doesn't move as quickly as steam. The double set of nipples encourages better circulation of the hot water through the radiator.

Around 1905, when "two-pipe" steam became popular, contractors began to use hot-water radiators on their steam systems as well, and those old steam radiators with their single set of bottom nipples soon became obsolete. Several manufacturers continue to make freestanding cast-iron radiators with the upper and lower push nipples, however.

If it's an old radiator you're looking for, you can take potluck at your local junkyard, or you can call Fran Fahey at A-1 New and Used Plumbing & Heating Supplies. Fran operates a veritable supermarket of antique radiators in all shapes, styles and sizes, and he has repaired and pressure-tested every one of them. He'll ship anywhere in the country, and he'll also fix old radiators that have push — not threaded — nipples connecting the sections.

There are also brand-new, cast-iron radiators available that look old (and gorgeous!). Low Energy Systems offers these Victorian-era beauties that whisper nostalgia and romance through delicate scrollwork. They're perfect for period homes.

Burnham Corp. makes a radiant, cast-iron radiator that you can recess into the wall. These are very popular as replacements for old radiators in parts of the country such as New England and Long Island where there are many older homes. One of the neat things about cast iron is that it holds its heat for a long time, and freestanding radiators (even when recessed) give off about 40% of their heat as a radiant glow (the rest of the heat moves by convection). They're very nice to be near.

Similar to these, but made of steel, are the European-style panel radiators available from Buderus. You can recess these flat-panel beauties into a wall as well and enjoy that radiant glow all winter long. You can also paint or paper these units, making them nearly invisible. The only thing you'll notice is the comfort.

Beyond free-standing and recessed there is a world of radiation known as "towel bars." They're modern, pleasing to the eye, and available in a wide range of shapes, sizes and colors. They do a marvelous job of warming the bath (as well as that terry cloth!). A great source for this type of radiation is Low Energy Systems in Colorado.

If you want the radiators to disappear completely from sight, then a radiant heating system is what you're after. In an older home, you can install these systems by attaching the radiant tubing (which is made from either plastic or rubber) directly beneath the floor. This process (called "staple-up") is like lacing a sneaker. You start by drilling a series of holes through the joists and then lacing the tubing up and down the joist bays. You can attach the tubing beneath wood floors, tiled floors, and even floors with rugs, but success depends on the sizing of the system. Work only with someone who has had experience with radiant if you're considering this method.

And here are a few things you should watch out for when you're thinking radiant: **Three walls of glass.** The heat loss in a room with three walls of glass will be about 20% more than it will be in an identical room with just two walls of glass. Keep in mind that you have just so much floor space available to act as the radiator. You can only release about 35 BTUH per square foot of floor space. If you exceed that "rule of thumb" limit, the homeowners are going to have hot feet. Also, you can damage wood floors if you let the surface temperature exceed 85 degrees F which it can, if you're pushing more than 35 BTUH/square foot. If there's not enough floor space, don't despair. You can put radiant tubing in the ceiling or the lower walls.

Prevailing winds over 15 mph. The house you're dealing with might be in a place where the wind blows all the time, and if it is, be careful. Wind can weasel its way into cracks in the house and create drafts. If the house is near the ocean or up on top of a hill, take note and figure that into your radiant-heat-loss calculation. A radiant-heat-loss calculation will always be less than a convective-heat-loss calculation (the latter being the traditional method) because a radiant-heat-loss calculation pretty much ignores heat loss by infiltration. It can do this because a radiant heating system makes the air inside the house very still. Still air is less likely to promote infiltration because there are no convective air currents moving past the windows and doors. When the wind is howling, however, this can change, and you'll have to compensate when you're figuring the heat loss. If you don't know how to do a radiant-heat-loss calculation, get help.

Rooms with lots of stone. People who camp in the woods on cold nights have a trick that helps them keep warm. They'll put a couple of big stones in the campfire and when they're ready to turn in for the night they'll take the

continued on page 26

Radiant-Heating Product Suppliers

The following list represents suppliers of radiant-heating products for existing systems — cast-iron radiators and new historically styled radiator covers — to suppliers of new products and accessories like radiant flooring, discreet panel systems, and towel warmers.

A-1 New & Used Plumbing & Heating Supplies
30 Prospect St., Dept. TB
Somerville, MA 02143 Tel: 617-625-6140
Cast-iron radiators, range of styles. Antique bath fixtures, clawfoot tubs, etc. *Call for information.*

Arsco Mfg. Co.
3564 Blue Rock Road, Dept. TB
Cincinnati, OH 45247
800-543-7040; Fax: 513-741-6292
Manufactures steel radiator enclosures and baseboard covers for steam and hot-water heating systems. *Write in No. 8610*

Barker Metalcraft
1701 W. Belmont Ave., Dept. TB
Chicago, IL 60657
800-397-0129; Fax: 773-929-2281
Custom manufacturing of radiator covers and heating enclosures in stamped and perforated metal; baseboard covers and convector covers; wall and floor grilles. *Write in No. 7670*

Buderus Hydronic Systems
16 Industrial Way, Dept. TB
Salem, NH 03079
603-898-0505; Fax: 603-898-1055
European-style steel radiators.

Burnham
P.O. Box 3079, Dept. TB
Lancaster, PA 17604
717-397-4701; Fax: 717-293-5827
Complete line of radiant heating products, including PEX pipe, fittings, controls, radiant flooring. New cast-iron radiators and baseboards; boiler line for residential and commercial.

Enerjee, Ltd.
24 S. Lafayette Ave., Dept. TB
Morrisville, PA 19067
215-295-0557; Fax: 215-736-2328
Wall-mounted Euro-style steel panel radiators. Thermostatic radiator valves and fittings; "Termonix" three-way and four-way valves, AUTOMIX Electronic Controls, and Termostatic non-electric zone valves for radiant floor applications. Website: www.enerjee.com.

Low Energy Systems
2916 S. Fox St., Dept. TB
Englewood, CO 80110
800-873-3507; Fax: 303-781-3608
Distribute many styles and colors of radiators; under-floor system and low-profile baseboard are designed as retrofit products for older homes.

Monarch Products Co.
111 Kero Rd., P.O. Box 326, Dept. TB
Carlstadt, NJ 07072
201-507-5551; Fax: 201-438-2820
Twenty styles of all-steel radiator enclosures; stock and custom; many color options, including wood grain. Corporate boardrooms a specialty, as well as offices, churches, institutions, and homes. Baked-enamel finish; grille front. *Write in No. 6060*

Myson, Inc.
49 Hercules Dr., #4904, Dept. TB
Colchester, VT 05446
800-698-9690; Fax: 802-654-7022
Four heights and 34 different sizes of radiant-panel products; 50 styles of hydronic towel warmers in plated and painted finishes.

Northern Radiant Floors
680 Otter Lane Rd., Dept. TB
Lind Lakes, MN 55038
800-666-1111; 612-429-5257
"Thermo Tech" panel radiators and towel warmers; Northern Radiant Floors: design, layout and complete systems.

Prairie Woodworking
343 Harrison St., Dept. TB
Oak Park, IL 60304
708-386-0603; Fax: Same as phone
Hand-crafted hardwood radiator enclosures in Arts & Crafts-influenced styles. Standard designs, as well as custom work available.

Radiant Technology, Inc.
11A Farber Dr., Dept. TB
Bellport, NY 11713
800-784-0234; Fax: 516-286-0947
Radiant floor, wall, and ceiling heating with "Heat-Pex" piping and "Radiant-Trak" heating panels; "Radiant-panel" baseboard heating that simulates 1-x-5-in. wood base molding; "Radiant-Rack" wall-mount radiators/towel warmers.

Reggio Register Co.
P.O. Box 511, Dept. TB
Ayer, MA 01432
978-772-3493; Fax: 978-772-5513
Manufactures a complete line of decorative grilles and registers in over 200 sizes and designs, in cast-iron, -brass, and -aluminum, as well as wood. Also: recessed radiation systems. *Write in No. 5810*

Runtal North America, Inc.
187 Nack Rd., Dept. TB
Haverhill, MA 01835
800-526-2621; Fax: 978-372-7140
Radiator technology; sleek panel radiators, including baseboards and "Omnipanel" towel radiators.

Wesaunard
9429 Courthouse Rd., Dept. TB
Spotsylvania, VA 22553
540-582-6677; Fax: 540-582-5233
Towel warmers hand-crafted in England; electric and hydronic; styles in gold, chrome, or nickel plate.

Wooden Radiator Cabinet Co.
P.O. Box 148037, Dept. TB
Chicago, IL 60614
800-817-9110; Fax: 773-281-1089
Wooden radiator cabinets in Prairie and Shaker styles.

TRADITIONAL BUILDING'S REGISTERS & GRILLES *SourceList*

CSI# 05530

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	PRODUCTS					MATERIALS								
			Registers	Grilles	Baseboards	Radiator Covers	Custom Designs	Cast Iron	Cast Brass	Cast Aluminum	Cast Bronze	Wrought/ Forged Steel	Stamped Metal	Perforated Metal	Wood	Other
All American Wood Register Co. 239 E. Main St., Dept. TB Cary, IL 60013 847-639-0393; Fax: 847-639-0157	Manufactures solid-wood floor, wall, and ceiling registers, and cold-air returns. Same-day shipping on all standard-size registers; custom sizes shipped within 48 hrs. 15- and 18-ft. baseboards are also ready to ship.	Free	✔												✔	
American Metal Products 8601 Hacks Cross Road, Dept. TB Olive Branch, MS 38654 800-423-4270; Fax: 601-809-8090	Comprehensive selection of over 500 sidewall, return-air grilles, filter grilles, floor and baseboard registers, and diffusers for ceiling, sidewall, and baseboard installation. Steel and/or aluminum models.	Free	✔	✔	✔								✔	✔		
Appalachian Floor Vents 308 East Water St., Dept. TB Flemingsburg, KY 41041 606-845-1030; Fax: 606-845-0414	Manufactures hardwood air vents and registers in any size and color: cold-air returns, base vents, carpet vents, and wall vents, flush-mount and self-rimming. Many wood species available.	Free	✔	✔	✔		✔	✔	✔	✔					✔	Golf vent with putting cup
Architectural Grille 77 14th St., Dept. TB Brooklyn, NY 11215 800-387-6267; Fax: 718-832-1390	Custom-perforated and linear bar grilles, manufactured to any size or shape. Some stock sizes available. Waterjet-cutting technology available.	Free Write in No. 9820	✔	✔		✔	✔						✔	✔		Stainless steel, steel, brass, bronze, aluminum
Arsco Mfg. Co. 3564 Blue Rock Road, Dept. TB Cincinnati, OH 45247 800-543-7040; Fax: 513-741-6292	Manufactures steel radiator enclosures and baseboard covers for steam and hot-water heating systems.	Free Write in No. 8610		✔	✔	✔	✔						✔	✔		Stainless steel
Barker Metalcraft 1701 W. Belmont Ave., Dept. TB Chicago, IL 60657 800-397-0129; Fax: 773-929-2281	Custom manufacturing of wall grilles, floor grilles, radiator covers, baseboard covers, convector covers, and heating enclosures in stamped and perforated metals.	Free Write in No. 7670		✔	✔	✔	✔						✔	✔		
Bathroom Machineries, DEA 495 Main Street, Dept. TB Murphys, CA 95247 800-255-4426; Fax: 209-728-2320	Restorer of plumbing and lighting fixtures; reproduction and original lighting, hardware, tubs, sinks, toilets, transom hardware, pull-chain toilets. Also, videos and catalogs.	Free Write in No. 5860	✔						✔				✔		✔	
Best Dressed Homes 1548 Pine Creek Road, Dept. TB Gastonia, NC 28056 800-411-5738; Fax: 888-407-8662	Specialist in filtered registers, grilles, and diffusers, available in solid brass, stamped brass, wood, plastic, and metal. Custom sizes and a variety of wood species are available for wood products.	Free	✔	✔	✔		✔		✔				✔		✔	Plastic
Cape Cod Air Grilles 11 Atlantic Ave., Dept. TB South Yarmouth, MA 02664 508-394-8700; Fax: Same as phone	Supplier of solid-wood grilles in all wood species; flush- and surface-mount grilles also available; custom grilles are a specialty.	Free Write in No. 693	✔	✔											✔	
ClassicAire Woodvents, Inc. 955-B North Columbia Blvd., Dept. TB Portland, OR 97217 800-545-8368; Fax: 503-735-3761	Makers of wood vents and registers in all standard duct sizes as well as custom sizes. Available in three styles: rabbeted flush mount, self rim, and standard flush mount.	Free	✔	✔	✔	✔	✔								✔	
Conant Custom Brass, Inc. 270 Pine St., Dept. TB Burlington, VT 05401 800-832-4482; Fax: 802-864-5914	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Manufactures a traditional line of pendants, chandeliers, and sconces; many finishes and styles.	Free Write in No. 5050	✔				✔		✔							
Erdle Perforating Co. P.O. Box 1568, Dept. TB Rochester, NY 14603 800-991-1342; Fax: 716-247-4716	Supplier of perforated and fabricated components in metal and plastic for a broad range of industries.	Free		✔										✔		
Farrodyne USA, Inc. 1027 W. Jackson Blvd., Dept. TB Chicago, IL 60607 312-226-0772; Fax: 312-226-0806	Company water-cuts registers and grilles out of glass, stone, and metal, in a fraction of the usual turnaround time. Services include custom designs of any size and fabrication out of any material, using water traveling at Mach 3.	Free Write in No. 776	✔	✔			✔								✔	Water-cutting, -carving, & -etching of materials up to 12 in. thick
Grate Vents 9502 Linder Ave., Dept. TB Crystal Lake, IL 60014 815-459-4306; Fax: No Fax	Manufacturer of wooden floor and wall grates, from 2 in. x 10 in. to 20 in. x 32 in. Many wood species available. Egg crate or louvered design. Custom sizes and applications a specialty. Baseboard registers available.	Free Write in No. 5040	✔		✔										✔	
Grill Works, Inc. 1609 Halbur Rd., Box 175, Dept. TB Marshall, MN 56258 800-347-4745; Fax: 507-532-3526	Manufactures standard and custom hardwood registers and grilles for floor, wall, and ceiling applications. Avaliable in 4 louver configurations (including a patented design) in 6 different models. Website: www.grillworksinc.com	Free Write in No. 7920	✔	✔	✔		✔								✔	
Harrington & King Perforating Co. P.O. Box 2248, Dept. TB Cleveland, TN 37320 800-251-6026; Fax: 423-479-8694	Manufactures decorative perforated steel, bronze, and aluminum in custom, as well as hundreds of standard designs for architectural applications; air-flow screens, grilles, radiator covers, registers, and lighting diffusers.	Free Write in No. 1020	✔	✔		✔	✔							✔		
Historical Arts & Casting, Inc. 5580 West Bagley Park Road, Dept. TB West Jordan, UT 84088 800-225-1414; Fax: 801-280-2493	Designer and manufacturer of lighting, columns and capitals, cornices, railings, fences, newels, planters, finials, street furnishings, and fountains cast in bronze, aluminum, or iron. Restoration and custom work.	Free Write in No. 1210	✔	✔		✔	✔	✔		✔	✔					
Homewood, Inc. P.O. Box 473, Dept. TB West Sacramento, CA 95691 800-531-1556; Fax: 916-371-0160	Low-profile, self-rim, hardwood air vents; adjustable registers with unique closure system, prefinished option, and self-rim edge as well as flush mount and flush mount with frame in a variety of wood species. Custom work available.	Free	✔	✔	✔	✔	✔								✔	
Jefferson Mack Metal, Inc. 2094 Oakdale Ave., Dept. TB San Francisco, CA 94124 415-550-9328; Fax: 415-285-3365	Hot-forged, hand-finished architectural metalwork: railings, grilles, gates, fences, sculpture, door hardware. Also, custom iron furniture, garden torches, chandeliers, more.	Free Write in No. 1079	✔	✔	✔		✔	✔	✔	✔	✔	✔				
Kees Architectural Grilles P.O. Box L, Dept. TB Elkhart Lake, WI 53020 800-889-7215; Fax: 920-876-3065	Custom perforated and linear bar grilles, manufactured to any size or shape.	Free	✔	✔	✔	✔	✔							✔		
Monarch Products Co. 111 Kero Rd., P.O. Box 326, Dept. TB Carlstadt, NJ 07072 201-507-5551; Fax: 201-438-2820	Twenty styles of all-steel radiator enclosures; stock and custom; many color options, including wood grain. Corporate boardrooms a specialty, as well as offices, churches, institutions, and homes. Baked-enamel finish; grille front.	Free Write in No. 6060				✔	✔					✔				
NOMMA - Nat'l. Ornamental & Misc. Metals Assn. 804 Main St., Suite F, Dept. TB Forest Park, GA 30297 404-363-4009; Fax: 404-366-1852	Major trade association of 860 metal fabricators with goal of improving levels of professional excellence in metalwork. They will provide a list of NOMMA members in your area if you are seeking a qualified fabricator.	Free Write in No. 5170	✔	✔												Listings of high-quality metal fabricators
Reggio Register Co. P.O. Box 511, Dept. TB Ayer, MA 01432 978-772-3493; Fax: 978-772-5513	Manufactures a complete line of traditionally designed, decorative grilles and registers in over 200 sizes and designs, in cast-iron, -brass, and -aluminum, as well as wood.	Free Write in No. 5810	✔	✔			✔	✔		✔	✔				✔	
Ridgefield Industries Co. 8420 West Railroad Street, Dept. TB Crystal Lake, IL 60012 800-569-0316; Fax: 815-356-9492	Manufacturer of a wide variety of wood wall and floor registers; floor registers available in self-rimming and flush-mount styles. All species of wood available; also, custom sizes.	Free Write in No. 708	✔				✔								✔	
Steptoe & Wife Antiques, Ltd. 322 Geary Avenue, Dept. TB Toronto, Ontario CANADA M6H 2C7 800-461-0060; Fax: 416-530-4666	Victorian-style cast-iron straight and spiral staircases and railings; finials; custom components; railings and gates to order; brass, bronze, aluminum, stainless. Also, decorative hardware, air registers, grilles, and more.	Free Write in No. 470	✔	✔			✔	✔	✔	✔	✔			✔		
Tennessee Fabricating Co. 2025 York Avenue, Dept. TB Memphis, TN 38104 901-725-1548; Fax: 901-725-5954	Supplier of ornamental cast-iron, -brass, and -aluminum architectural parts for rails, columns, fences, gates, foundation vents, furniture, and grillework.	Free Write in No. 5180	✔	✔					✔		✔					
Wainlands Mark II 453 West 17 Street, Dept. TB New York, NY 10011 212-243-7717; Fax: 212-243-7722	Custom metal fabricators: metal registers and grilles, both punched and linear; standard and custom designs. Drapery, handrails, light fixtures, door and bath hardware, furniture, cladding, gates, fireplaces, etageres, and canopies.	Free Write in No. 295	✔	✔			✔							✔		

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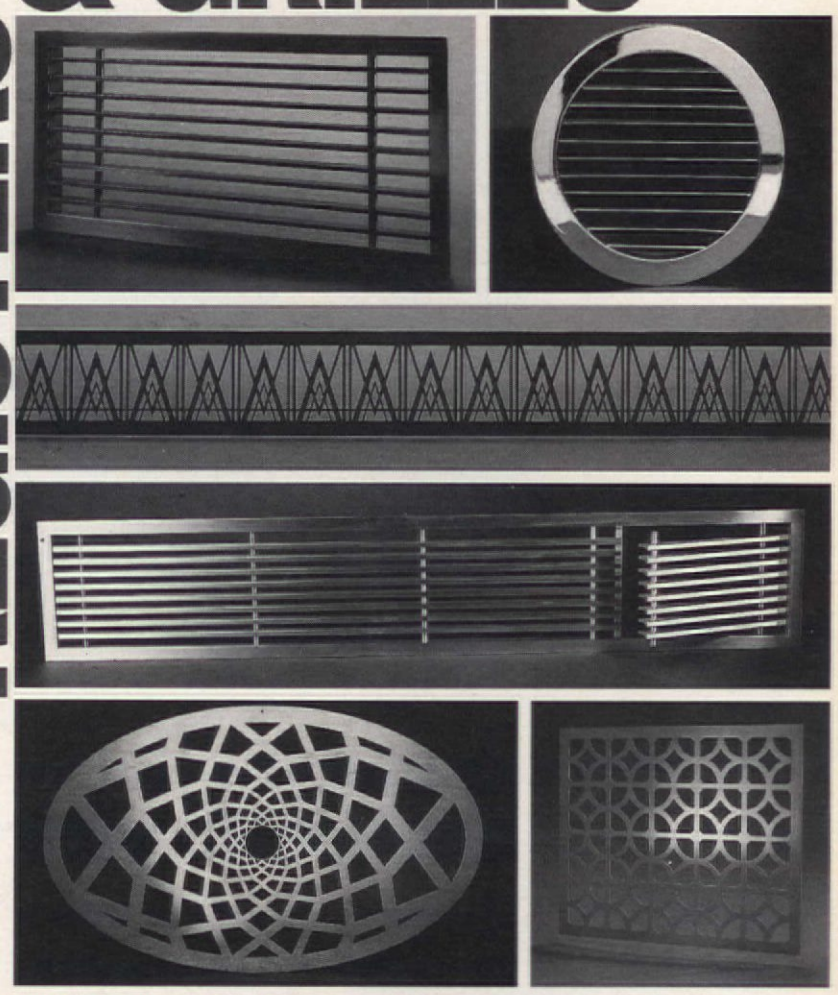
WRITE IN NO. 7920

REGISTERS & GRILLES



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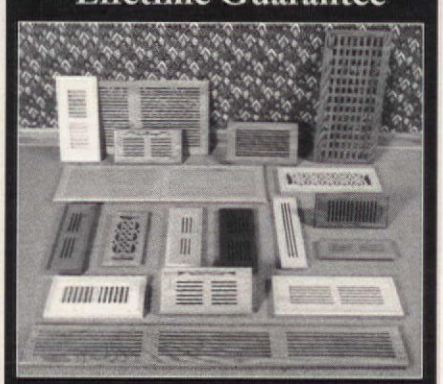

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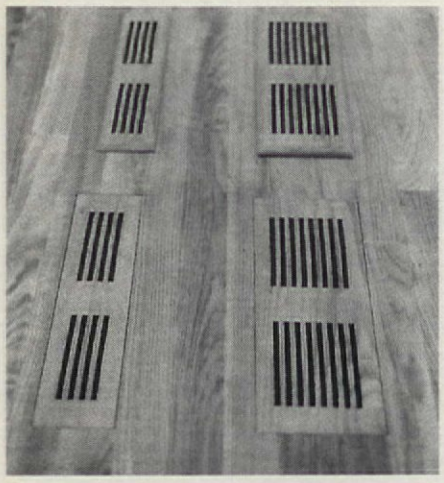
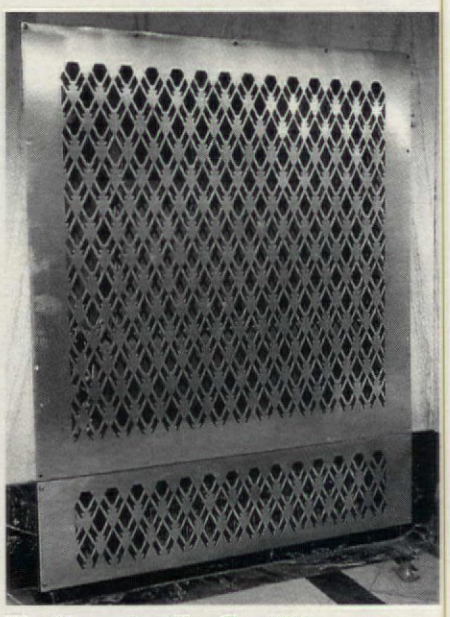
WRITE IN NO. 708

REGISTERS & GRILLES PORTFOLIO

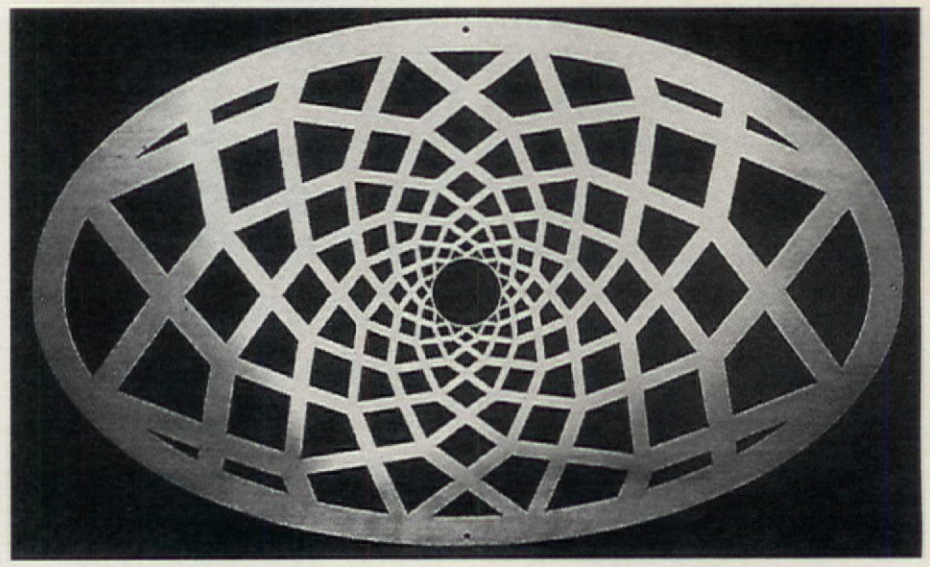
For more information on these companies, consult the SourceList on page 22.



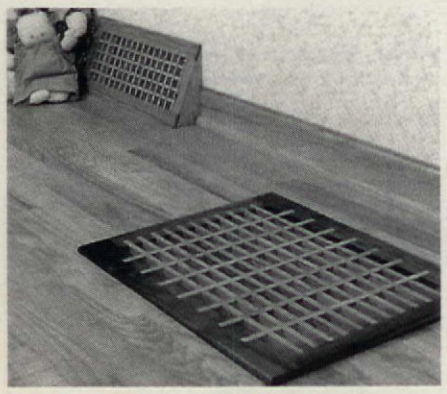
Floor vents in all wood species are available from CAPE COD AIR GRILLES. Pictured here are surface-mount (top) and flush-mount vents. *Write in No. 693*



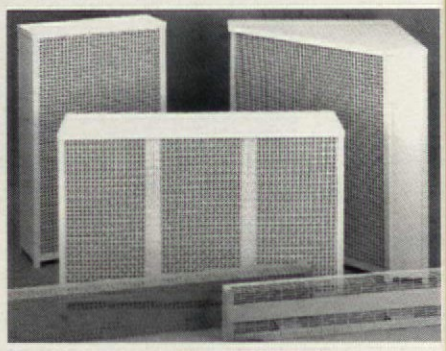
The "Arrowhead" grille, #725, a custom design manufactured by HARRINGTON & KING; serves warm- or cold-air ducts and comes in brass, aluminum, stainless, bronze, or steel. *Write in No. 1020*



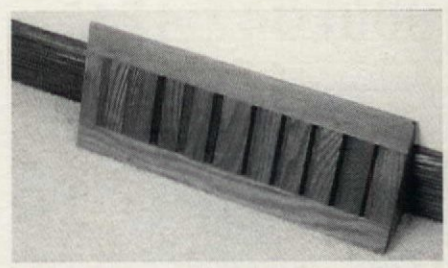
Custom designs — such as the Op Art effect of this grille — are a specialty of WAINLANDS MARK II. *Write in No. 295*



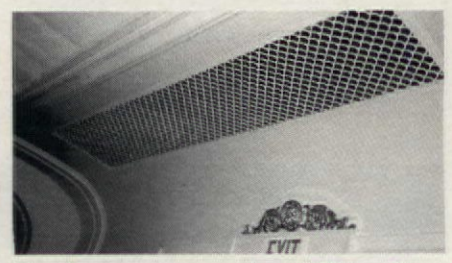
The plethora of wooden floor grates available from GRATE VENTS include the Model C drop-in (front), 14 in. x 18 in., in walnut and red oak, and the Model D1 tapered baseboard (rear), 8 in. x 18 in., in red oak. *Write in No. 5040*



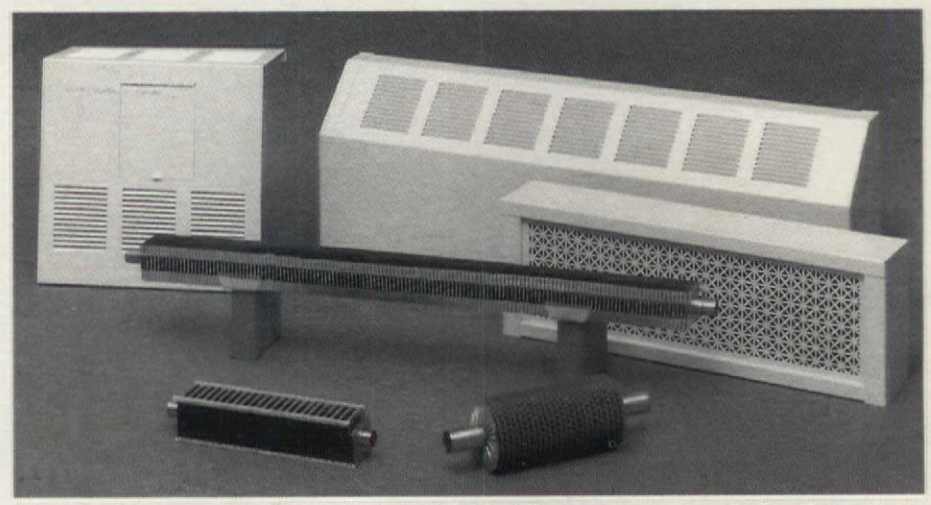
Radiator covers from BARKER METALCRAFT, custom made to spec, are available in numerous patterns and enamel colors. *Write in No. 7670*



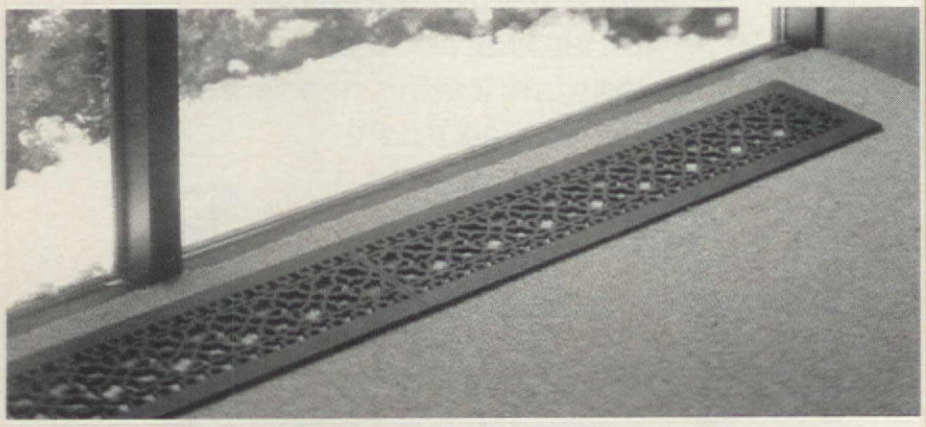
One of the many wood floor registers from GRILL WORKS is their Base Vent, with an angled face designed to cover duct openings near the base board. *Write in No. 7920*



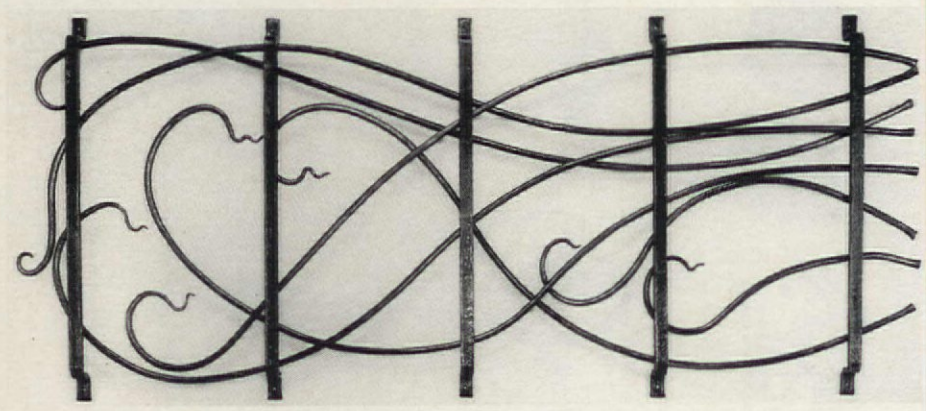
For the recent restoration of Chicago's Orchestra Hall, FARRODYNE U.S.A. custom-cut ornamental grilles which function as air registers for the ventilation system. *Write in No. 776*



Along with its custom radiator covers, ARSCO offers numerous standard-style steel covers, such as the three fin-tube covers shown here, left to right: the Model FT 90 Square Top; FT 45 Sloped Top; FTPT Perforated Type. *Write in No. 8610*



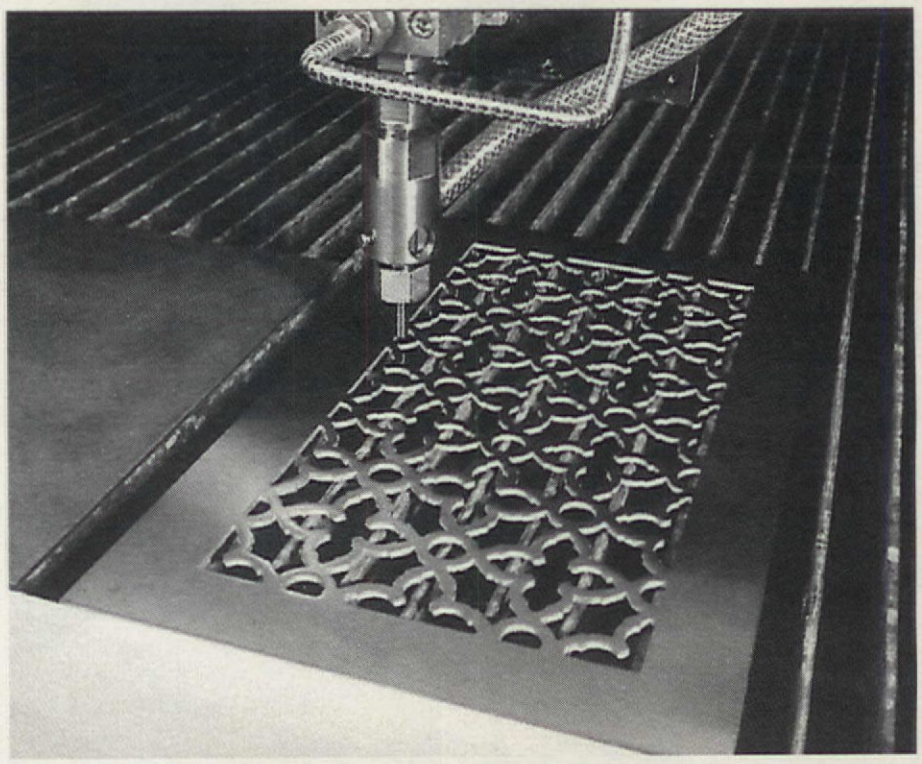
This handsome cast-iron grille (also available in brass) releases the heat from REGGIO REGISTER's below-floor Recessed Radiation System. *Write in No. 5810*



A grille can also make a handsome artistic statement; case in point, this imaginative design from JEFFERSON MACK METAL. *Write in No. 1079*

MONARCH radiator enclosures, besides being decorative, help channel heat away from walls and windows. *Write in No. 6060*

Wood vents from CLASSICAIRE are available in three styles: self rim, standard flush mount, and (shown) rabbeted flush mount, which comes with a frame.



ARCHITECTURAL GRILLE's waterjet system employs computer software to ensure precise duplication of any design. *Write in No. 9820*

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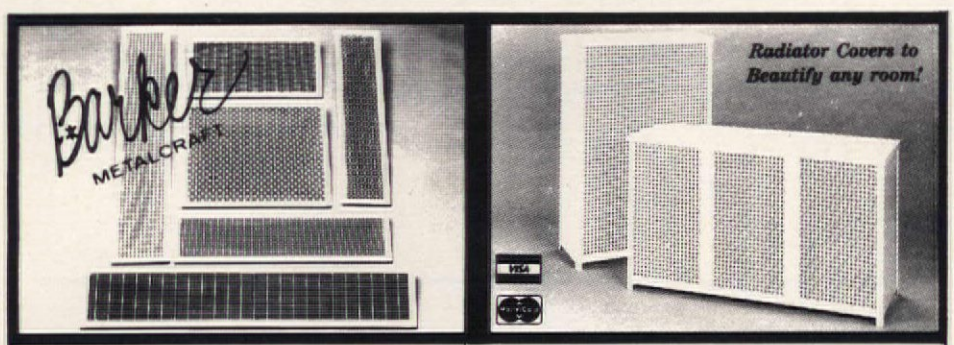

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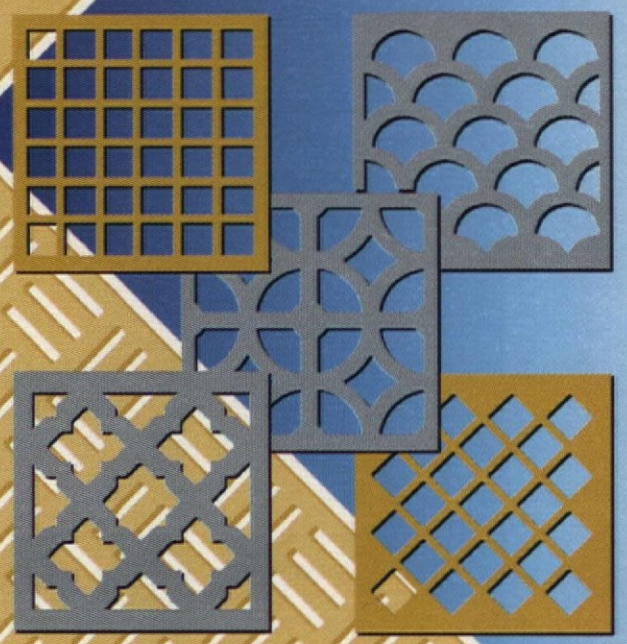

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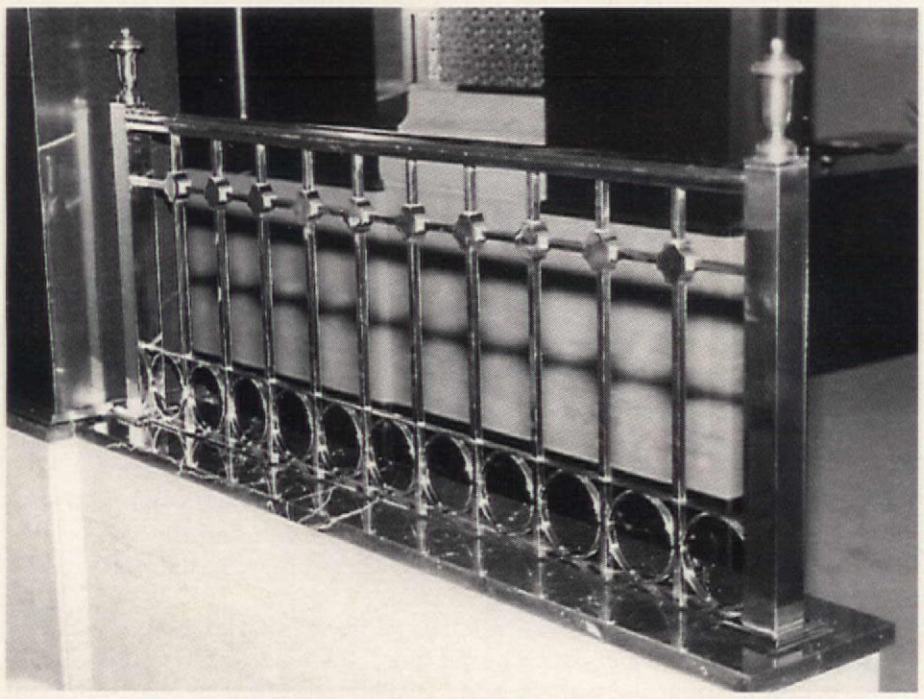
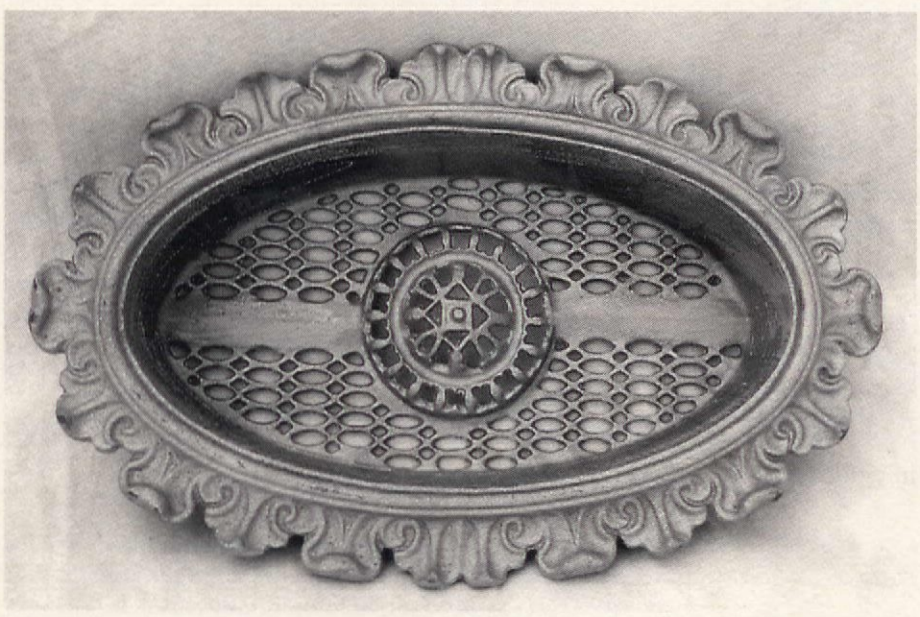
For more information on these companies, consult the SourceList on page 22.



Following the architect's specifications, STEPTOE & WIFE custom made this bronze grille for a bank in Toronto. *Write in No. 470*



This aluminum, Victorian-styled recessed foundation vent from TENNESSEE FABRICATING CO. measures 22-1/2 in. long x 14-1/2 in. wide x 4-1/2 in. deep. *Write in No. 5180*

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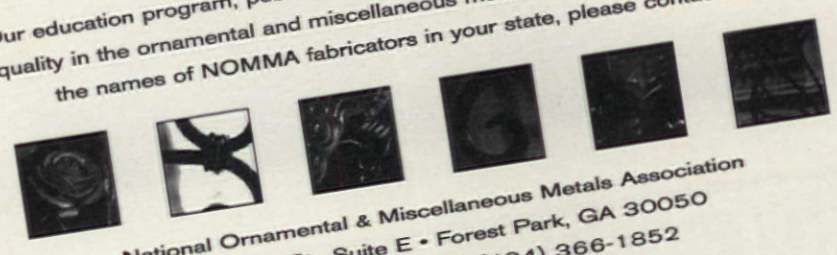

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WRITE IN NO. 5170

HEATING PERIOD ROOMS, continued from page 21

stones from the fire and lay them inside the tent. The stones slowly release their heat inside the tent, and if the camper keeps the flaps closed, those stones will keep the inside of the tent toasty until dawn. Rocks hold heat, and that's why you should be careful with your control strategy when you're working with a room that has brick or stone walls, or a big fireplace. These rooms will take a bit longer to heat, and they'll stay warmer long after the water stops flowing through the tubing. "Stone rooms" work best when they're on their own zone.

High-hat lights. Because the standard ones have no insulation, high-hat lights can suck heat out of a room and stick it into a ventilated attic. They can add considerably to a room's heat loss. Several manufacturers make insulated high-hats that cost just a bit more than the standard type but create less heat loss. They can make a difference in a radiantly heated home.

Old houses. Assume the worst and figure on there not being much insulation in the walls when you do your radiant-heat-loss calculation. If possible, talk the homeowners into insulating the place before they spend all that money on a heating system.

Wet wood. There shouldn't be more than 6% moisture in any wood you're going to heat. If you staple radiant tubing under wet wood, you're going to get a nasty surprise when the finished floor dries and turns into corduroy. A moisture detector (available in most tool catalogues) will show you the wood's moisture content instantly.

Thick carpet. Putting a carpet and pad on a radiantly heated floor is like putting a sweater and winter coat on your body. Both keep the heat from escaping. If there are to be rugs, you should know about them. Allow for the higher R-value of the carpet and pad when you're doing your load calculations. I looked at a gorgeous house in Monterey a while ago. The place had hydronic radiant heat and carpets that were as thick as the owner's wallet. He told me that he warned the contractor he was going to do this. The contractor listened, and sized the system for extra tubing and a hotter-than-usual water temperature. As I write these words, that homeowner has been wonderfully comfortable for 11 years. Like I said, just about anything's possible with hydronics — but first you have to know what you're up against.

Different types of heaters. I once helped a contractor troubleshoot a strange situation. He had put a kick-space heater under a kitchen cabinet. In the same room, but on the opposite wall, he had installed a recessed convector in front of a sliding glass door. He took great pains to size these heaters properly. He knew that on the coldest day of the year, the homeowners would need them both. But when the coldest day of the year arrived, the homeowners were cold in their new kitchen. They called the contractor and he called me. The only thing I could figure was that those two types of heaters weren't getting along. The recessed convector wanted the air at the floor level to be cold so that it could grab it, heat it, and send it up toward the ceiling. The kick-space heater, however, kept heating the air near the floor and sending it spinning toward the recessed convector. The heated air was interfering with the cold air that the recessed convector needed. The result was the recessed convector did very little heating. Water flowed through it, sure, but the water's temperature didn't drop by much because the heat wasn't transferring to the already warmed air! Some hydronic heaters, you see, don't play well with others. Keep that in mind if you put any sort of blower (or ceiling fan) that creates convective currents into a radiantly heated room. You just might mess things up on that coldest day of the year.

Anything's possible with hydronics — both old and new. The radiators can be stately and out in the open — or totally unseen. The only limit is your imagination! ■

*Dan Holohan's books include The Lost Art of Steam Heating, Hydronic Radiant Heating: A Practical Guide for the Non-engineer Installer, and Screwing Up: 666 Ways to Go Wrong on Your Next Heating Job. He also maintains a website, **http://www.danholohan.com**, with excerpts from his books and columns, and plenty of anecdotal material on the science of hot water heating. Books can be ordered online or through his company, **Dan Holohan Associates, Inc.**, 63 North Oakdale Ave., Bethpage NY 11714. Tel: 800-853-8882.*

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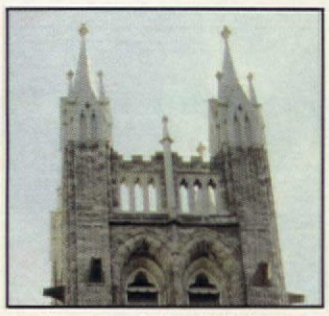

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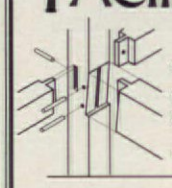

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SourceList 30-34
Portfolio 35-37

SPECIFYING PANELING & CASEWORK

In surveying suppliers for this essential area of interior decor, the Editors contacted 108 companies. From their responses, we've selected the 73 you'll find on the *SourceList* on pp. 30-34.

The types of companies on the *SourceList* range from those that will only do custom work to shops that have full millwork catalogs and will ship upon order. The *SourceList* represents companies that will provide complete millwork packages, casework and cabinetry, paneling, wainscoting, carved panels, moldings and trim, stairs and railings, furniture, and other related wood products, such as flooring, mantels, beams, doors, and the like. If you're looking to specify paneling and/or casework in a particular wood species, scan the righthand column of the *SourceList*; among companies on the list, all species are available. ■

Instant Access to Product Literature for PANELING & CASEWORK

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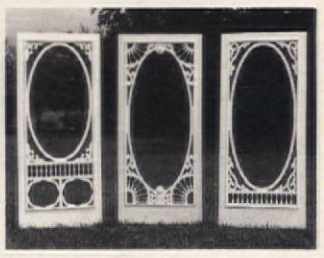

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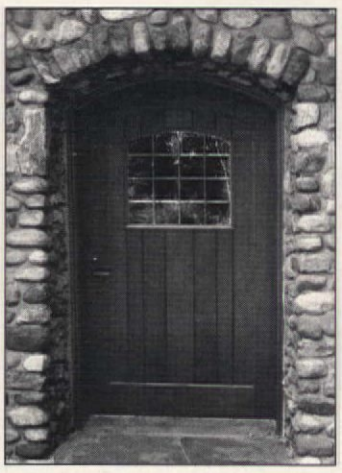

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Adams Stair Works & Carpentry, Inc. 1083 So. Corporate Circle, Dept. TB Grayslake, IL 60030 847-223-1177; Fax: 847-223-1188	Custom stair parts and turnings; custom stair kits; circular, spiral, and straight stairs. Pre-fab or K.D. available. Installation available. Also, custom libraries, mantels, wainscoting, ceiling beams, and built-ins.	Free Write in No. 610	✔	✔		✔	✔	✔	✔			✔		All species	100%
Aged Woods, Inc. 2331 East Market Street, Dept. TB York, PA 17402 800-233-9307; Fax: 717-840-1468	Rustic, recycled antique woods and beams for t-&-g plank flooring, timber framing, paneling, stair parts, moldings, and in dimensional form for cabinetry. Kiln-dried and milled. Wide plank, random-width, and antique flooring.	Free Write in No. 1320		✔	✔			✔	✔				Flooring, timber framing	Oak, pine, heart pine, chestnut, maple, hemlock, poplar, hickory, ash	100%
Airedale Woodworks P.O. Box 307, Dept. TB Murfreesboro, NC 27855 800-489-0639; Fax: 919-398-8429	Supplier of remilled flooring and boards salvaged from old tobacco barns. Tobaccowood can also be used to custom build staircases, molding, doors, ceilings, paneling, and other original woodwork.	Free	✔	✔	✔	✔	✔	✔	✔	✔			Flooring, ceilings, doors	Oak, pine, heart pine, gum, cypress, poplar	90%
American Custom Millwork, Inc. P.O. Box 3608, Dept. TB Albany, GA 31706 912-888-3303; Fax: 912-888-9245	Embossed and plain architectural wood moldings, straight or curved, and custom millwork; nationwide. Custom specialties: gun cases, mantels, stairs, bookcases; can reproduce molding designs.	Free Write in No. 6780						✔						Red oak, white hardwood	100%
Architectural Forest Products, Inc. 2763 18th Street, Dept. TB Two Rivers, WI 54241 920-793-4404; Fax: 920-793-4003	Source for custom-veneered architectural panels and doors in all available species.	Free			✔									All available veneers	100%
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Brandt, Sylvan 651 East Main Street, Dept. TB Lititz, PA 17543 717-626-4520; Fax: 717-626-5867	18th- and 19th-century building materials salvaged from old houses, grist mills, and barns, including hand-hewn logs, windows, doors, flooring, and paneling.	Free Write in No. 3950			✔								Flooring, doors, windows, hand-hewn logs	Oak, pine, heart pine, chestnut	100%
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Chesapeake Hardwood Products 201 Dexter St., W., Dept. TB Chesapeake, VA 23324 800-446-8162; Fax: 757-543-4335	This company manufactures plywood wall paneling, hardwood paneling, hardwood plywood, pre-cut wainscot panels, solid-wood plank paneling with baseboard and chair rail.	Free Write in No. 9220			✔	✔								Indonesian plywood, lauan, hardwood plywood	50%
Chestnut Specialists, Inc. 400 Harwinton Ave., Dept. TB Plymouth, CT 06782 860-283-4209; Fax: Same as phone	Original planks and remilled flooring from antique salvaged lumber in chestnut, oak, and pine. Random-width, -length; planed t&g or square-edged, kiln-dried. Antique barn beams also available.	Free Write in No. 8780			✔								Flooring, hand-hewn beams	Oak, pine, heart pine, chestnut	100%
Chestnut Woodworking & Antique Flooring P.O. Box 204, Dept. TB West Cornwall, CT 06796 860-672-4300; Fax: 860-672-2441	Recycles antique woods. Original wideboard flooring and remilled t-&-g flooring in chestnut, oak, white pine, heart pine, and hemlock. Kiln-dried. Also, furniture-grade antique woods. Custom paneling.	Free Write in No. 412			✔								Flooring	Oak, pine, heart pine, chestnut, hemlock	90%
Classic Cabinets & Millwork 1134 Garvin Place, Dept. TB Louisville, KY 40203 888-207-2503; Fax: 502-585-2469	Manufacturer of commercial custom casework.	Free		✔								✔		All species	95%
Cochran's Lumber and Millwork P.O. Box 203, Rt. 734, Dept. TB Bluemont, VA 22012 540-554-8274; Fax: 540-554-2153	Custom moldings, doors, mantels, flooring; custom millwork, built-ins, bars; hardwoods and antique woods.	Free Write in No. 9780	✔	✔	✔			✔					Flooring, doors, mantels, bars	Hardwoods, antique woods	50%
Corsi Cabinet Co. 6111 Churchman Bypass, Dept. TB Indianapolis, IN 46203 800-999-7606; Fax: 800-525-2706	Design and manufacture custom cabinetry for kitchens, bath, home office, and theater; sales to authorized dealers; custom finish treatments.	Free Write in No. 441		✔	✔	✔								Oak, cherry, knotty pine, maple, hickory, laminate	100%
Country Road Associates, Ltd. Franklin Ave., P.O. Box 885, Dept. TB Millbrook, NY 12545 914-677-6041; Fax: 914-677-6532	Can provide large quantities, shipped anywhere; 19th- and 18th-century reclaimed lumber from old barns and homes; wood is de-nailed and trimmed on ends, can be planed and tongue-and-grooved or straight-lined ripped.	Free Write in No. 7480			✔				✔				Flooring, hand-hewn beams	Oak, pine, heart pine, chestnut, maple, hemlock, cherry, ash, spruce	90%
Craftsman Lumber Co. P.O. Box 222, Dept. TB Groton, MA 01450 978-448-5621; Fax: 978-448-2754	Custom Eastern white pine flooring and paneling; to 24 in. wide. Northern hard pine, oak, ash, maple, and cherry available; to 12 in. wide. Custom beams also available.	Free Write in No. 4320			✔								Flooring, beams	Oak, pine, maple, ash, walnut, cherry	100%
Creative Woodcraft 264 E. Blackwell St., Dept. TB Dover, NJ 07801 973-366-6080; Fax: 973-366-9749	Complete custom woodworking facility; projects range from custom turning to complete libraries.	Free	✔	✔	✔	✔	✔	✔	✔	✔			Complete turning capabilities	All species	100%
Cumberland Woodcraft Co. P.O. Drawer 609, Dept. TB Carlisle, PA 17013 800-367-1884; Fax: 717-243-6502	Architectural and period millwork, fixtures, and decorative treatments; commercial projects from ornate bars to conference tables; also carries carvings, carved signs, appliques, fretwork, grilles, and wood ceilings; screen doors.	Free Write in No. 1310	✔	✔	✔	✔	✔	✔	✔					Oak, maple, poplar, cherry, mahogany	20%
Curtis Coleman Company 23450 Arnold Drive, Dept. TB Sonoma, CA 95476 707-938-1982; Fax: 707-938-8663	Restoration and replication of furniture and architectural woodwork.	Free	✔		✔	✔	✔		✔	✔		✔		All species	100%
Darien Millworks 920 Westersham Place, SW, Dept. TB Marietta, GA 30064 770-792-1971; Fax: 770-792-1972	Graded antique heart-pine flooring, millwork, and stair parts. Heart-pine timbers for exposed beams, structural and decorative. Certified yellow-pine flooring. Custom paneling.	Free Write in No. 565	✔						✔				Flooring, beams	Heart pine	90%
Decora P.O. Box 420, Dept. TB Jasper, IN 47546 812-634-2288; Fax: 812-634-2850	Manufacturer of semi-custom cabinetry for the kitchen, bath, and other rooms of the house. More than 40 door styles, over 50 specialty options, 13 paints and finishes, and over 75 pieces of decorative hardware.	Free			✔	✔		✔						Oak, maple, hickory, cherry	10%
Duluth Timber Co. P.O. Box 16717, Dept. TB Duluth, MN 55816 218-727-2145; Fax: 218-727-0393	Resawn planks and beams, flooring, paneling, and custom millwork from recycled timbers; 'as is' timbers; national shipping.	Free Write in No. 112	✔		✔	✔		✔					Flooring, beams	Heart pine, Douglas fir	100%
Enkeboll Designs 16506 Avalon Boulevard, Dept. TB Carson, CA 90746 310-532-1400; Fax: 310-532-2042	Comprehensive selection of architectural elements carved in solid woods: moldings, columns, capitals, newels, corbels, onlays, panels; mantel fascias and bases available in maple and oak. Catalog set $20, refundable with order.	Free	✔	✔	✔		✔	✔	✔				Columns, doors, mantels	Maple, red oak, cherry	0%

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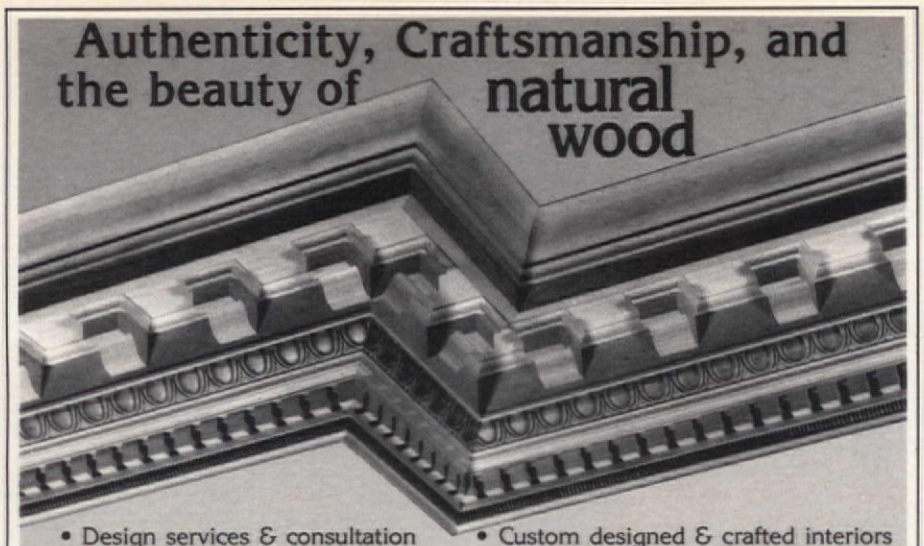

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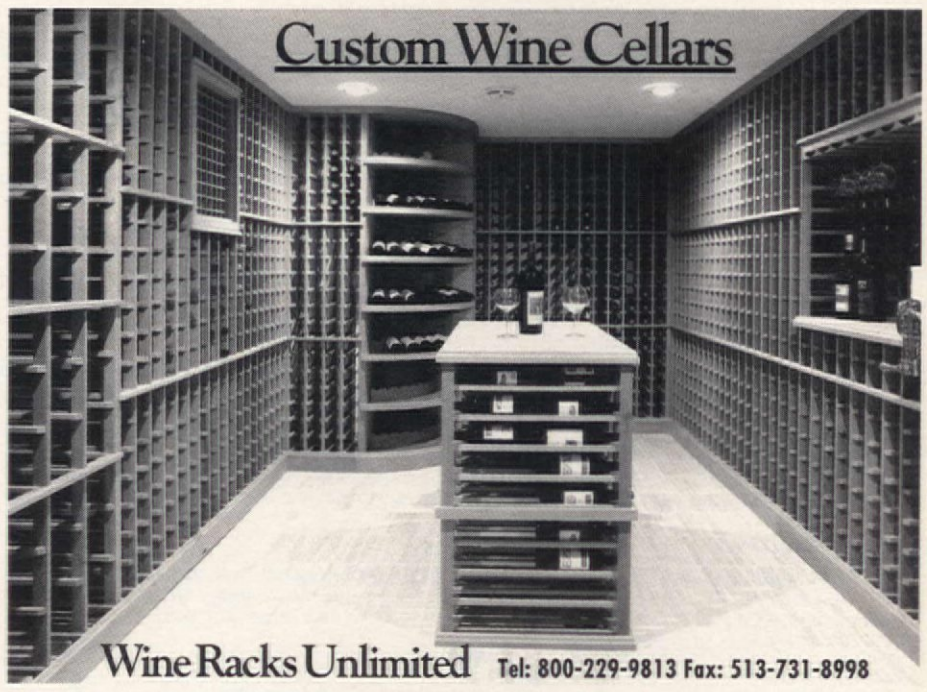

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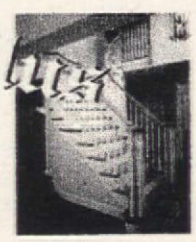

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WRITE IN NO. 577

TRADITIONAL BUILDING'S PANELING & CASEWORK *SourceList*

CSI# 06400

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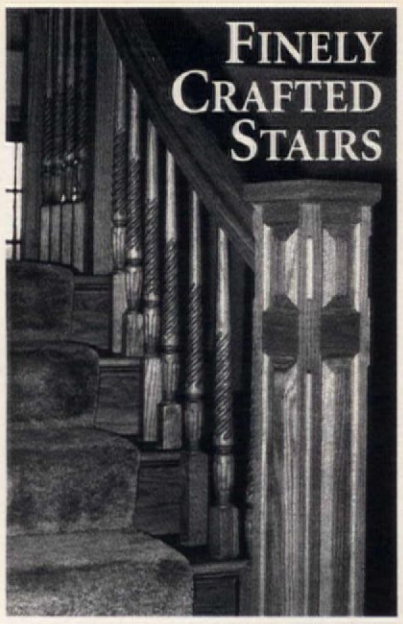
COMPANY	SPECIALTY	Literature	Types of Paneling & Casework								Products/Services			Wood Species	% Custom
			Complete Millwork Packages	Casework & Cabinetry	Paneling	Wainscoting	Carved Panels	Moldings & Trim	Stairs & Railings	Furniture	Molding Knives & Tools	Installation	Other		
Frank Miller Lumber Co. 1690 Frank Miller Road, Dept. TB Union City, IN 47390 765-964-7850; Fax: 765-964-7647	Hardwood manufacturer supplies quality quartered and rift-sawn hardwood lumber for moulding and millwork, flooring, cabinets, furniture, and other end-users, in a range of wood species.	Free Write in No. 324											Hardwood lumber	White oak, red oak, walnut, cherry, ash, hickory, sycamore, hard maple, beech	90%
Goodwin Heart Pine Co. 106 SW 109th Pl., Dept. TB Micanopy, FL 32667 800-336-3118; Fax: 352-466-0608	Antique heart-pine and heart-cypress flooring, stair parts, and moldings. 'River Recovered' is the premium brand; 'Legacy' includes nail holes, a more rustic look. Also, custom paneling.	Free Write in No. 1330			✔			✔	✔				Hardwood flooring	Old-growth heart pine and old-growth heart cypress	100%
Grabill Windows & Doors 7463 Research Dr., Dept. TB Almont, MI 48003 810-798-2817; Fax: 810-798-2809	Historic reproduction windows and doors. Also, paneling and other architectural millwork.	Free Write in No. 1910			✔			✔					Windows, doors	All species	100%
Hardwoods Millworking 300 Whites Creek Road, Dept. TB Confluence, PA 15424 800-782-2301; Fax: 814-395-5474	Custom hardwood wall and ceiling planks and custom hardwood flooring.	Free Write in No. 724	✔		✔	✔		✔						Appalachian hardwoods	100%
Harvey Millwork, Inc. P.O. Box 249, Dept. TB Bozman, MD 21612 410-822-7689; Fax: 410-745-9926	Specialist in longleaf heart pine, three species available, native and imported. Custom flooring, doors, molding, paneling, vents/registers, mantels, trim, and stair parts; shipping worldwide.	Free Write in No. 3460	✔		✔	✔		✔	✔			✔	Flooring, doors, vents, mantels	Oak, pine, heart pine, chestnut, maple, ash, teak, walnut, bamboo, domestic and Brazilian cherry	100%
Jesse James Woodworks P.O. Box 8503, Dept. TB Bodfish, CA 93205 760-379-1554; Fax: 760-379-8885	Custom Western furniture and Western-style kitchen doors and drawer fronts from milled, thick-plank Western cedar and knotty pine.	Free Write in No. 729		✔	✔	✔				✔			Doors, drawer fronts	Knotty pine, cedar, birch, oak	99%
Kronenberger & Sons Restoration 955 South Main St., Dept. TB Middletown, CT 06457 860-347-4600; Fax: 860-343-0309	Restoration firm specializing in house moving; window restoration; matching existing interior and exterior moldings, trim, paneling, etc.; wood carving; wood roofs; and any wood project.	Free Write in No. 536		✔	✔	✔	✔	✔				✔		All species	100%
Longleaf Lumber 70-80 Webster Ave., Dept. TB Somerville, MA 02143 617-625-3659; Fax: 617-625-3615	Antique heart-pine flooring and custom milling; wide-plank and random-width boards. Also, barn boards, chestnut and white pine. Custom paneling.	Free Write in No. 272		✔		✔				✔			Flooring	Antique heart pine, white pine, chestnut	90%
Longwood Restoration 330 Midland Place #3, Dept. TB Lexington, KY 40505 800-225-7857; Fax: 606-299-8205	Wide-plank flooring: original and remilled, all species. Two- and four-sided hand-hewn beams, furniture and cabinet stock, character boards, wainscoting, and much more. Any wood species specified.	Free Write in No. 564		✔		✔				✔			Flooring, hand-hewn beams	Oak, pine, heart pine, chestnut	90%
LWO Corporation P.O. Box 17125, Dept. TB Portland, OR 97217 503-286-5372; Fax: 503-286-4092	Specialty wood products; lattice products; interior wood paneling; garden accents; arbors, trellises, fencing, pickets, and deck accessories.	Free			✔	✔		✔						Knotty pine, knotty-, clear-, and aromatic-cedar, clear heart redwood, red oak	0%
Manor Style, Ltd. 6741 Whitestone Rd., Dept. TB Baltimore, MD 21207 800-325-2188; Fax: 410-298-7261	National distributor for Focal Point, DFI, White River. Selection includes embossed wood mouldings, preformed polymer mouldings, niches, domes, columns, decorative capitals, medallions, and more.	Free Write in No. 703		✔				✔					Columns, capitals, mantels	Most species, flexible resin, preformed polymer	30%
Maurer & Shepherd, Joyners 122 Naubuc Avenue, Dept. TB Glastonbury, CT 06033 860-633-2383; Fax: 860-633-7231	Shop specializes in historic reproduction architectural millwork in pine and mahogany: windows, doors, entryways, and raised paneling.	Free Call for more information	✔	✔	✔	✔	✔	✔					Flooring, windows, doors, mantels	Pine, white oak, mahogany	100%
Midwest Architectural Wood Products 300 Trails Road, Dept. TB Eldridge, IA 52748 319-285-8000; Fax: 319-285-8003	Custom windows and doors with a special emphasis on historic-restoration projects. Replacement and storm and screen sash a specialty. Also, architectural millwork.	Free Write in No. 1460			✔								Windows, doors	Mahogany, pine, or as specified	100%
National Hardwood Flooring & Molding 14959 Delano St., Dept. TB Van Nuys, CA 91411 800-988-9663; Fax: 818-988-4955	Wholesale hardwood flooring & moulding, columns, staircases, mantels, custom laser flooring, custom milling. Over 4.5 million ft. of material stocked.	Free Write in No. 4210						✔	✔				Flooring, columns, mantels	Oak, pine, heart pine, chestnut, maple, walnut, cherry, Brazilian hardwood	5%
New West Furniture 2811 Big Horn Avenue, Dept. TB Cody, WY 82414 800-653-2391; Fax: 307-527-7409	Manufacturer of high-end, custom Western furnishings for the residential, commercial, contract, and institutional markets.	Free Write in No. 726		✔						✔				Western softwoods, select hardwoods, and customer specified	90%
Old World Mouldings, Inc. 115 Allen Blvd., Dept. TB Farmingdale, NY 11735 516-293-1789; Fax: 516-293-1908	Manufacturer of hardwood moldings and architectural wood carvings. Specialist in embossed wood mouldings, arhces, and curves. Over 400 profiles in stock; custom work available.	Free Write in No. 274				✔	✔	✔			✔	✔	Arches, embossed moldings, carvings	All hardwood species	40%
Pacassa Studios 1793 12th St., Dept. TB Oakland, CA 94607 510-465-4655; Fax: 510-465-9985	Designs and fabricates custom furniture and cabinetry in wood with sheet metal, steel, and glass fabrication. Zinc countertops, entry doors, railings, and more.	Free Write in No. 755	✔	✔	✔					✔	✔	✔	Veneer work	All wood species	100%
Patina Woods Co. 3563 New Franklin Road, Dept. TB Chambersburg, PA 17201 717-264-8009; Fax: No Fax	Antique flooring, wall paneling, and beams from old barns and outbuildings. Also, flooring made from old beams.	Free Write in No. 569			✔								Flooring, beams	Oak, pine	90%
Pioneer Millworks 1755 Pioneer Rd., Dept. TB Shortsville, NY 14548 716-289-3090; Fax: 716-289-3221	Custom sawing and planing of reclaimed timbers in oak, Douglas fir, and heart pine for use with traditional joinery; hand-hewing, antique floors, ceilings, trim, and moldings.	Free Write in No. 6370			✔			✔					Flooring, ceilings, doors	Oak, heart pine, white pine, Douglas fir, redwood	80%
Powell Cabinet & Fixture Co. 1300 Freeport Blvd., Dept. TB Sparks, NV 89431 702-359-4700; Fax: 702-359-4704	Furnishes and installs complete interior millwork projects, including special finishes for hotels, casinos, restaurants, offices, and banks; detailed drawings and project coordination.	Free	✔	✔	✔	✔	✔	✔	✔	✔		✔		Any wood species requested	95%
Quality Cabinet and Fixture Co. 885 Gateway Center Way, Dept. TB San Diego, CA 92102 619-266-1011; Fax: 619-266-0878	Specialist in high-end architectural woodwork for the hospitality, retail, and corporate markets.	Free	✔									✔		All wood species	100%
R.F.R. Associates, Inc. 6800 Caballero Blvd., Dept. TB Buena Park, CA 90620 714-562-8330; Fax: 714-522-1120	Offers restaurant/hotel/casino clients a complete source for custom architectural casework and panels.	Free	✔									✔		All wood species	100%
R.L. Dulaney & Co. 219 Oak, Dept. TB Quincy, IL 62301 217-223-0481; Fax: No Fax	Victorian interior and exterior doors, fireplace mantels, stair parts, porch columns, balusters, and rails. Restoration and preservation a specialty.	Free	✔	✔	✔	✔		✔	✔	✔		✔	Historic consultation and design	All wood species	90%
Red Hills Lumber 709 Campbell St., Dept. TB Thomasville, GA 31792 912-227-3556; Fax: 912-227-3557	Lumber company specializing in longleaf new heart-pine interior products: flooring, paneling, molding, and custom-design orders.	Free Write in No. 756			✔			✔					Flooring	Pine, heart pine	90%



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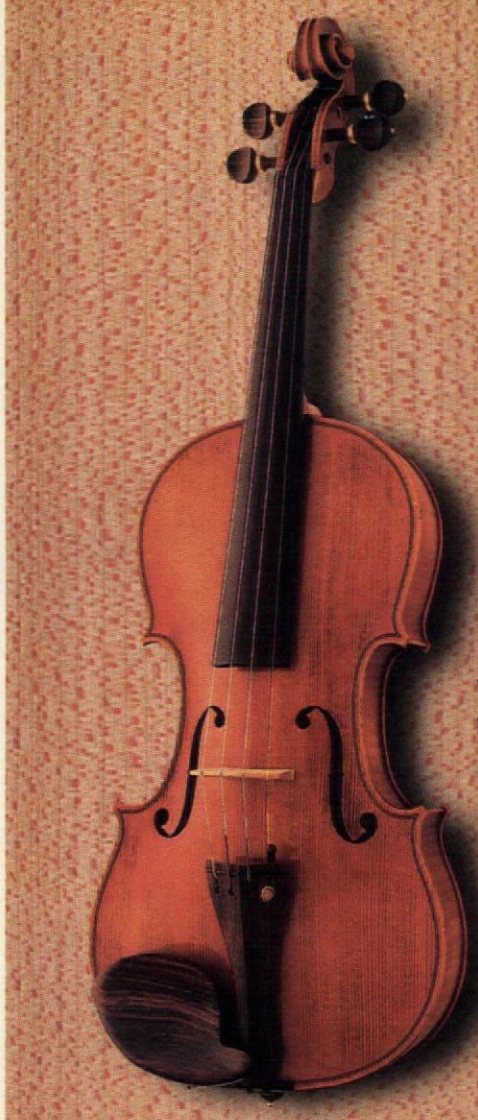

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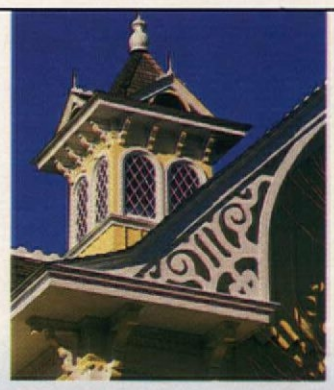

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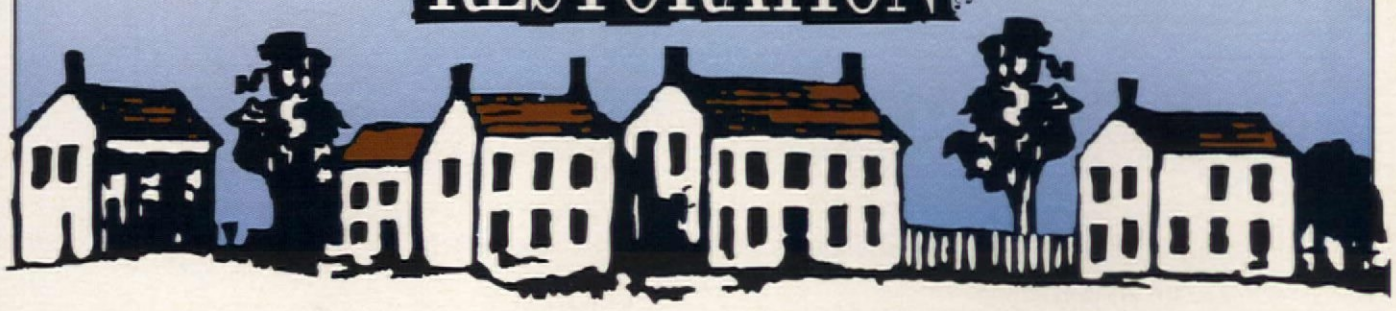

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WRITE IN NO. 536

TRADITIONAL BUILDING'S PANELING & CASEWORK *SourceList*

CSI# 06400

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	Types of Paneling & Casework								Products/Services			Wood Species	% Custom
			Complete Millwork Packages	Casework & Cabinetry	Paneling	Wainscoting	Carved Panels	Moldings & Trim	Stairs & Railings	Furniture	Molding Knives & Tools	Installation	Other		
Riverwood Heart Pine Co. 2953 Westfield Road, Dept. TB Gulf Breeze, FL 32561 888-858-7463; Fax: 850-932-0812	Using heart pine and cypress reclaimed from Southern river bottoms, the company offers kiln-dried, custom molded flooring, paneling, trim, and furniture.	Free Write in No. 539			✔	✔		✔	✔	✔			Flooring	Heart pine, old-growth cypress	90%
Salisbury Artisans 80 Factory St., Box 631, Dept. TB Salisbury, CT 06068 860-435-0344; Fax: Same as phone	Design, manufacture, and installation of custom furniture, built-ins, kitchens, and libraries, artistic doors, home offices; 30 years' experience.	Free		✔	✔	✔				✔		✔	Design and detailed drawings	All wood species, especially cherry and maple	90%
Sampson & Son Rte. 90, P.O. Box 1010, Dept. TB Warren, ME 04864 800-769-6196; Fax: 207-273-4006	FSC-certified, well managed forest strip and plank solid hardwood flooring. Also: stair parts, moldings, millwork, doors, cabinetwork.	Free Write in No. 759	✔	✔				✔	✔				Flooring, doors	Oak, pine, maple, birch, red birch, cherry, mahogany, ash	100%
Sheoga Hardwood Flooring & Paneling P.O. Box 510, Dept. TB Burton, OH 44021 440-834-1710; Fax: 440-834-9310	Random-width, tongue-and-groove plank flooring in eight species; end-matched, pre-sanded woods for paneling, flooring, and ceilings; herringbone flooring; custom-made wood vents.	Free Write in No. 1660			✔	✔								Ash, cherry, maple, poplar, pine, red oak, white oak, walnut	15%
Somerset Door & Column Co. P.O. Box 755, Dept. TB Somerset, PA 15501 814-445-9608; Fax: 814-443-1658	Colonial wood columns, custom or standard; architectural solid-wood doors; newels, balusters, casework, paneling, and moldings.	Free Write in No. 660	✔	✔	✔	✔		✔	✔				Columns, doors, mantels	As specified	55%
St. John's Bridge P.O. Box 441, Dept. TB Kent, CT 06757 860-927-3315; Fax: 860-927-3317	Custom woodworking shop featuring paneling and wood interiors for both historical and contemporary interiors, all native and exotic species.	Free Write in No. 78		✔	✔					✔				Any wood species	100%
Staircrafters Plus LLC 640 Harvard St., Dept. TB Manchester, NH 03103 603-669-9244; Fax: 603-669-0695	Custom circular, curved, elliptical, flared, and straight staircases. Also available, a wide range of architectural woodwork, including custom case work and wainscot.	Free Write in No. 577	✔	✔		✔	✔		✔					All wood species	100%
Stephan Mfg. 103 Neal Ave., Dept. TB West Monroe, LA 71291 318-396-2875; Fax: 318-396-2881	Manufacturer of wood moldings and trim in a variety of species; custom work available.	Free						✔						Red oak, white oak, poplar, maple, birch, cherry, walnut, hickory, mahogany, cypress	20%
Stephen M. Cabitt Company 55 Glen Street, Dept. TB Rowley, MA 01969 978-948-8172; Fax: 978-948-7452	Designer and manufacturer of period paneling, casework, architectural millwork, and mouldings since 1976.	Free	✔	✔	✔	✔		✔		✔				All wood species	100%
Steuber, Sean - Architectural Craftsman 5247 Point Pleasant Pike, Dept. TB Doylestown, PA 18901 215-766-0730; Fax: 215-766-4951	Architectural-design company can design and build a house, including all architectural components, as well as design and build the furniture.	Free	✔	✔	✔	✔	✔	✔	✔	✔		✔	Architectural design	All wood species	100%
The Woods Company 610-B No. Fifth Ave., Dept. TB Chambersburg, PA 17201 717-263-6524; Fax: 717-263-9346	Wide-plank flooring from new woods and remilled antique woods such as heart pine, oak, chestnut, and white pine; brush-textured flooring; stair parts; antique beams; floor decking; exposed-beam ceiling and joist systems.	Free Write in No. 5600							✔				Flooring, beams	Oak, pine, heart pine, chestnut, maple, hemlock, poplar, yellow pine, white pine	75%
Union Church Millworks 6800 Rich Patch Road, Dept. TB Covington, VA 24426 540-862-0767; Fax: 540-862-3375	Interior hardwood supplier specializing in hardwood flooring, paneling, step treads, moldings, and trim in both clear and natural grades. Products are made from all Appalachian species and are pre-sanded and ready to install.	Free			✔	✔		✔	✔					All Appalachian species	10%
Ventwood 21255 76th Ave. South, Dept. TB Kent, WA 98032 253-395-7170; Fax: 253-395-7270	Ventwood pre-assembled wood panels are a modular system that can be used for high-design ceilings, partitions, and acoustical wall applications, as well as sun screens, fences, decks, and benches.	Free			✔									Hemlock, red oak, cedar, others if specified	10%
Vermont Hardwoods 25 Town Farm Road, Dept. TB Chester, VT 05143 802-875-2550; Fax: 802-875-2101	Unfinished hardwood flooring made to order. Baseboard, casing, solid paneling, and other trim items also available.	Free Write in No. 716		✔	✔			✔					Flooring	Oak, maple, ash, cherry, walnut	100%
White River Hardwoods-Woodworks 1197 Happy Hollow Rd., Dept. TB Fayetteville, AR 72701 800-558-0119; Fax: 501-442-0257	Over 450 architectural mouldings stocked in poplar and red oak. "Mon Reale," Ornamentally Embossed Hardwoods, Traditional Smooth Hardwoods, and Decorative Embossed MDF. "Mon Reale," an exclusive selection of sculptured hardwood moldings. Curved and custom work. Webpage: www.mouldings.com	Free Write in No. 1099	✔		✔	✔	✔	✔						Poplar, red oak, others upon request	15%
Wicks Custom Woods P.O. Box 129, Dept. TB Highland, IL 62249 800-444-9425; Fax: 618-654-3770	Custom cabinetry, shelving, freestanding units, or built-ins; mantels and overmantels; home theaters, millwork, and custom hand-carving available.	Free		✔			✔			✔				All hardwoods	100%
Wilbur, Frederick - Woodcarver P.O. Box 425, Dept. TB Lovingston, VA 22949 804-263-4827; Fax: 804-263-5958	Woodcarver specializing in traditional decorative carving for interiors and exteriors, furniture, mantels, moldings, friezes, column capitals, logos, and heraldry. Creates original designs and historically accurate reproductions.	Free Write in No. 1650					✔	✔		✔			Mantels, signage, column capitals	Mahogany, bass wood, walnut, white pine	100%
Wine Racks Unlimited 4575 Eastern Avenue, Dept. TB Cincinnati, OH 45226 800-229-9813; Fax: 513-979-5281	Designer and manufacturer of custom wine cellars and wine racks for homeowners, wine stores, grocery stores, wine wholesalers, and vineyards; free Auto-CAD design service.	Free Write in No. 2910	✔	✔								✔		Clear all-heart redwood, premium redwood, red oak, pine, Honduran mahogany	80%
Wm. Ohs, Inc. 5095 Peoria St., Dept. TB Denver, CO 80239 303-371-6550; Fax: 303-371-6601	Elegant handmade wood kitchen cabinetry in period European and American stylings.	Free		✔										Pine, maple, alder, cherry	100%
Wohner's, Inc. 29 Bergen St., Dept. TB Englewood, NJ 07631 201-568-7307; Fax: 201-568-7415	In business since 1907, this company offers a line of machine-carved, classically styled architectural embellishments: corbels, onlays, mantel parts, panel decorations, moldings, and ornament made from hand-carved masters.	Free Write in No. 5590					✔	✔					Mantels, onlays	Oak, maple	20%
Wood Factory 111 Railroad Street, Dept. TB Navasota, TX 77868 409-825-7233; Fax: 409-825-1791	Historically accurate millwork reproductions, interior and exterior: doors, screen doors, gingerbread, benches, gazebo parts, finials, stair parts, railings, porch parts, custom-turned lighting posts. Specialist in custom mantels.	Free Write in No. 7120			✔	✔		✔	✔	✔			Doors, porch parts, lighting posts, screen doors	All wood species	95%
Wood, Steel & Glas, Inc. 9 Old Post Road, Dept. TB Madison, CT 06443 203-245-1781; Fax: 203-245-0755	For 25 years this company has specialized in historically important, decay-resistant Atlantic and Northern white cedar, custom milled according to specification. Shingles and siding available.	Free Write in No. 552						✔	✔				Siding, decking	Atlantic and Northern white cedar, old-growth redwood, cypress	100%
Woodline Co. 1521 W. 14th St., Dept. TB Long Beach, CA 90813 310-436-3771; Fax: 310-436-8891	Architectural wood products, including wood carvings and corbels, stair parts, finials, capitals, and posts.	Free Write in No. 5240					✔	✔	✔				Finials, capitals, posts	Oak, alder, poplar	75%
YesterTec Design Co. P.O. Box 190, Dept. TB Center Valley, PA 18034 610-838-1194; Fax: 610-838-1937	Manufacturer of kitchen-workstation furniture, sold to the trade. Pre-designed, pre-priced components; concealed ovens and cooktops in UL-listed workstations. Webpage: www.yestertec.com	Free		✔						✔				Mahogany, pine, cherry, maple	10%

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WRITE IN NO. 6490

PANELING & CASEWORK PORTFOLIO

For more information on these companies, consult the SourceList on pp. 30-34.

NEW WEST FURNITURE custom designed and built this living-room bookcase and entertainment center for a residence in Wyoming. *Write in No. 726*

The handsome cabinetry in this interior is the handiwork of ADAMS STAIR WORKS & CARPENTRY. *Write in No. 610*

The vast array of wine display and storage racks available from WINE RACKS UNLIMITED includes these redwood lockers, complete with brass hinges and locks. *Write in No. 2910*

Recreating colonial joinery is the specialty of MAURER & SHEPHERD, JOYNERS, as this authentic, 18th-century-style raised paneled wall demonstrates. *Call 860-633-2383 for information.*

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CUMBERLAND WOODCRAFT has recently introduced a portable bar, 6 ft. long x 28 in. deep x 42 in. high. *Write in No. 1310*

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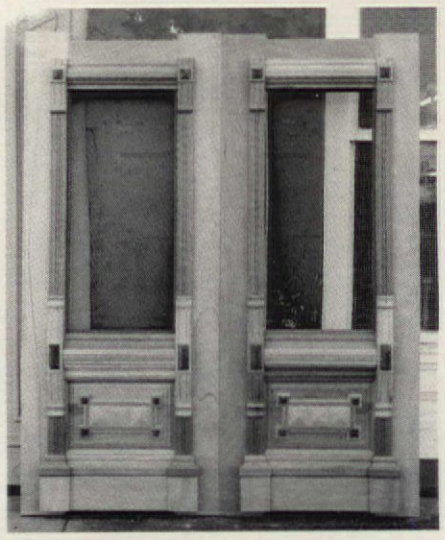
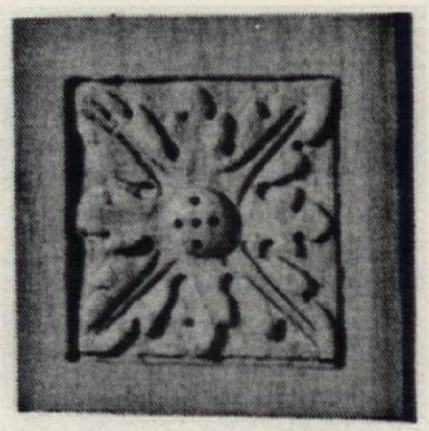


These still-incomplete doors demonstrate the detail and style which THE WOOD FACTORY brings to its wood panels. *Write in No. 7120*

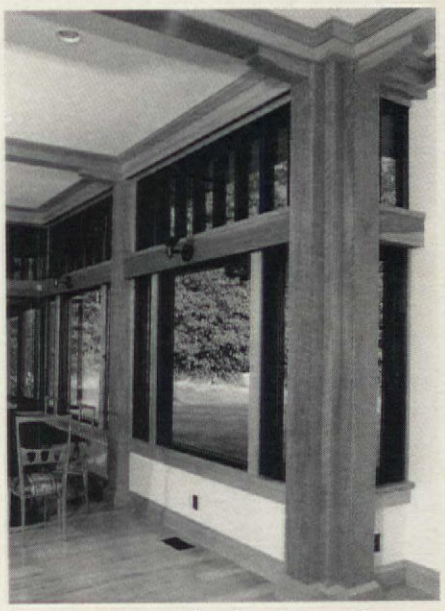


This foliate panel from WOODLINE measures 3-1/2 in. x 3-1/2 in x 3/4 in. *Write in No. 5240*

PANELING & CASEWORK PORTFOLIO

For more information on these companies, consult the SourceList on pp. 30-34.

KRONENBERGER & SONS built this custom kitchen for a private residence in Connecticut. *(photo by Joe Morek) Write in No. 536*



These mahogany fixed and operable casement widows from GRABILL FINE WOOD WINDOWS & DOORS also feature fixed transom units above. *Write in No. 1910*

Among the many fine wood panels from RAYMOND ENKEBOLL DESIGNS is the "Grape Leaf," which measures 11 in. wide x 18-1/4 in. high.

PANELING & CASEWORK PORTFOLIO

For more information on these companies, consult the SourceList on pp. 30-34.

A cabinet unit from CORSI CABINET CO. can be a major design statement that defines the entire room. *Write in No. 441*

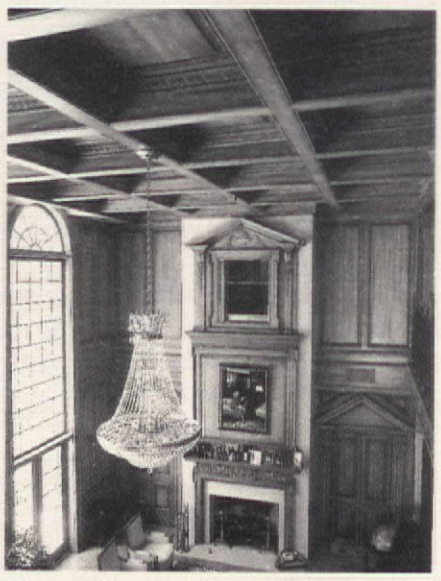
ARCHITECTURAL PANELING supplies fine custom wood paneling that can transform a room into a work of art. *Write in No. 6490*

Decorative trim from OLD WORLD MOULDING & FINISHING greatly enlivens the decor of this handsome study. *Write in No. 274*

The "Plus" in STAIRCRAFTERS PLUS suggests the company's ability to execute other forms of architectural woodwork. Case in point: This superb interior, with custom mantel, moldings, wall and pilaster treatments. *Write in No. 577*

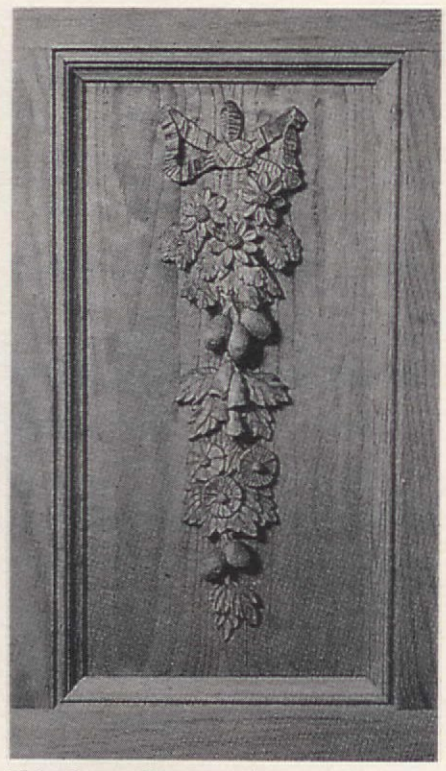
ST. JOHN'S BRIDGE has a special expertise at building custom cabinetry, such as the corner cabinet shown here. *Write in No. 78*

Entertainment-system cabinetry from WICKS CUSTOM WOODS can be a work of art all by itself.



High-quality mouldings and panelwork are the trademark of AMERICAN CUSTOM MILLWORK. *Write in No. 6780*

A wide selection of embossed moulding profiles in Victorian and Victorian Revival styles is available from WHITE RIVER HARDWOODS. *Write in No. 1099*



This elegant floral panel, measuring 24 in. tall, is just one of the many impressive woodwork designs created and hand-carved by FREDERICK WILBUR, WOODCARVER. *Write in No. 1650*

SourceList 42-46
Portfolio. 48-52

RECREATING THE "CITY OF GOLD"

Architectural moldings in FRP enabled the Disney Development Company to replicate a legendary lost city at a cost less than a king's ransom.

By Robert J. Pierson, III, *President, DEC Associates*

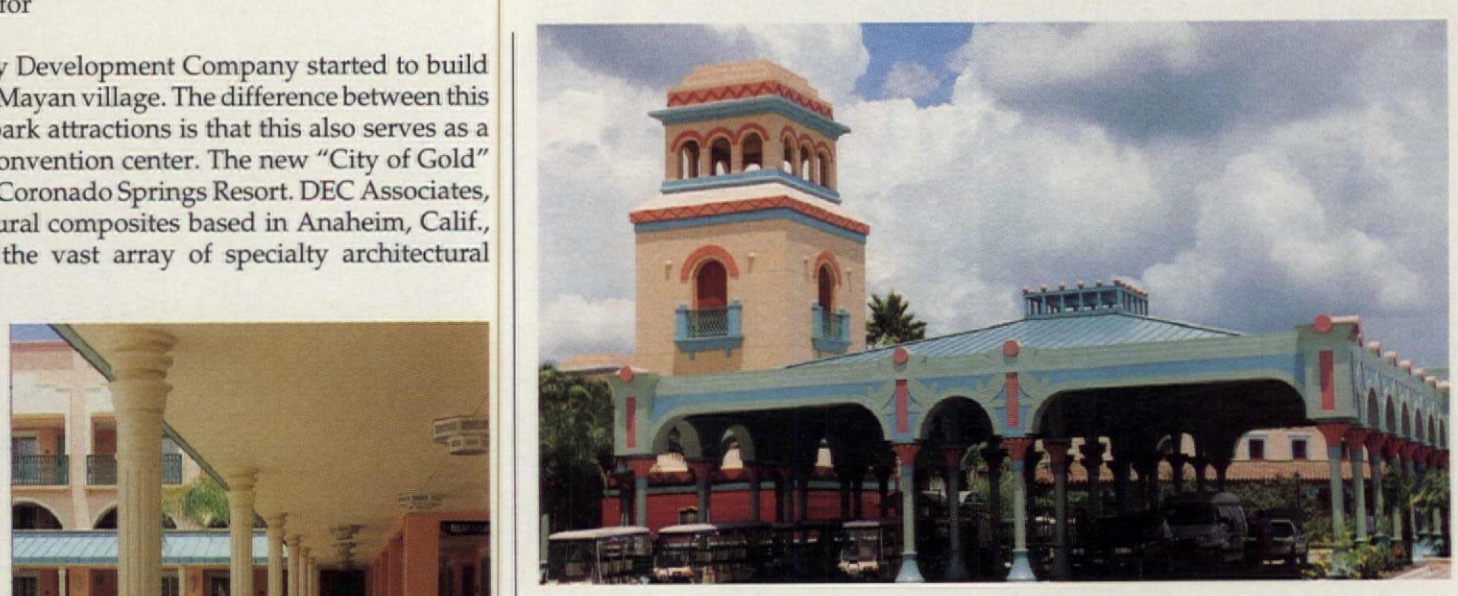
In 1569, Juan Francisco, a wealthy Spanish landowner and part-time treasure hunter, sought out the legendary lost City of Gold hidden deep within the jungles of Mexico. The city, as the legend was told, was a paradise ornamented with gold. After searching for a year and a half, Francisco found the lost city of Uxmal — a true paradise — but not the gold he imagined. Instead, he found an ancient Mayan city of pyramids; villages and artwork made of cut stone that possessed unparalleled beauty when turned golden by the lake's reflection. Clearly the most technically advanced civilization of the New World in its time, the Mayan people utilized revolutionary techniques of city planning and architectural design in their cities. Many of the construction techniques, although revolutionary for the time, are still utilized today.

This long shot illustrates the expanse and scale of the Coronado Springs Resort, which is comprised of both commercial/retail buildings and lodging. Proximity to the water — and therefore moisture, salt, and insects — made FRP an ideal fabricating material.

In the winter of 1995, the Disney Development Company started to build their vision of a mythical Old World Mayan village. The difference between this project and one of Disney's theme-park attractions is that this also serves as a world-class 2,000-room resort and convention center. The new "City of Gold" for the Disney resorts chain is called Coronado Springs Resort. DEC Associates, a custom manufacturer of architectural composites based in Anaheim, Calif., was secured as the fabricator for the vast array of specialty architectural materials required for the project.

The Design Process

The primary design criteria and product selection for Coronado Springs Resort was a balance between a desire for authenticity in materials and long-term maintenance and durability. Because of the central-Florida location of the project, the environment for exterior finishes involves ambient- and surface-temperature extremes and high humidity with corrosive salt water, as well as a propensity for termites and other insects. With wood finishes being a key component of the Mayan and Southwestern themes involved, the utilization of actual wood carries many maintenance concerns. Since the potential of closing down sections of the hotel to repair problems, such as dry rot, can be economically devastating to the property, the weathering performance and ability to accurately replicate natural textures and finishes naturally leads to the use of composites.



FRP is a material that lends itself well to projects that require replication, architectural detail, and durability. A sampling of its use at Coronado Springs Resort includes (starting with photo above and moving counter-clockwise): FRP simulated-wood-texture columns; a porte cochere completely clad in FRP; FRP simulated-cast-metal column covers; and FRP simulated-wood-texture trellis beams.

Disney properties have utilized architectural composites for over 20 years in both their entertainment-park attractions and resort locations. They have found that the flexibility in design, durability, performance, and Class I fire rating make it a logical choice to meet their requirements of economy and resistance to high-traffic abuse. With the current trend toward "fantasy destination resort" shown in the gaming and resort businesses, the architects and property owners view the use of composites as a successful alternative.

Material Selection

In selecting materials for the project, the architect had to evaluate the benefits inherent to natural materials versus the demands of the environment. The performance requirements ranged from product longevity to service-life cost.

continued on page 40

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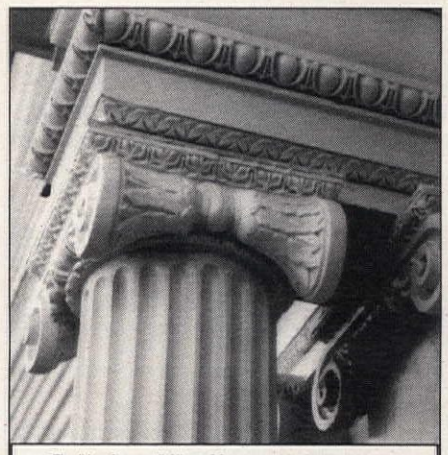

The "Joy Cottage," Aiken, SC, restored by Naifeh & Smith with capitals and molding restored and recast by Archicast.

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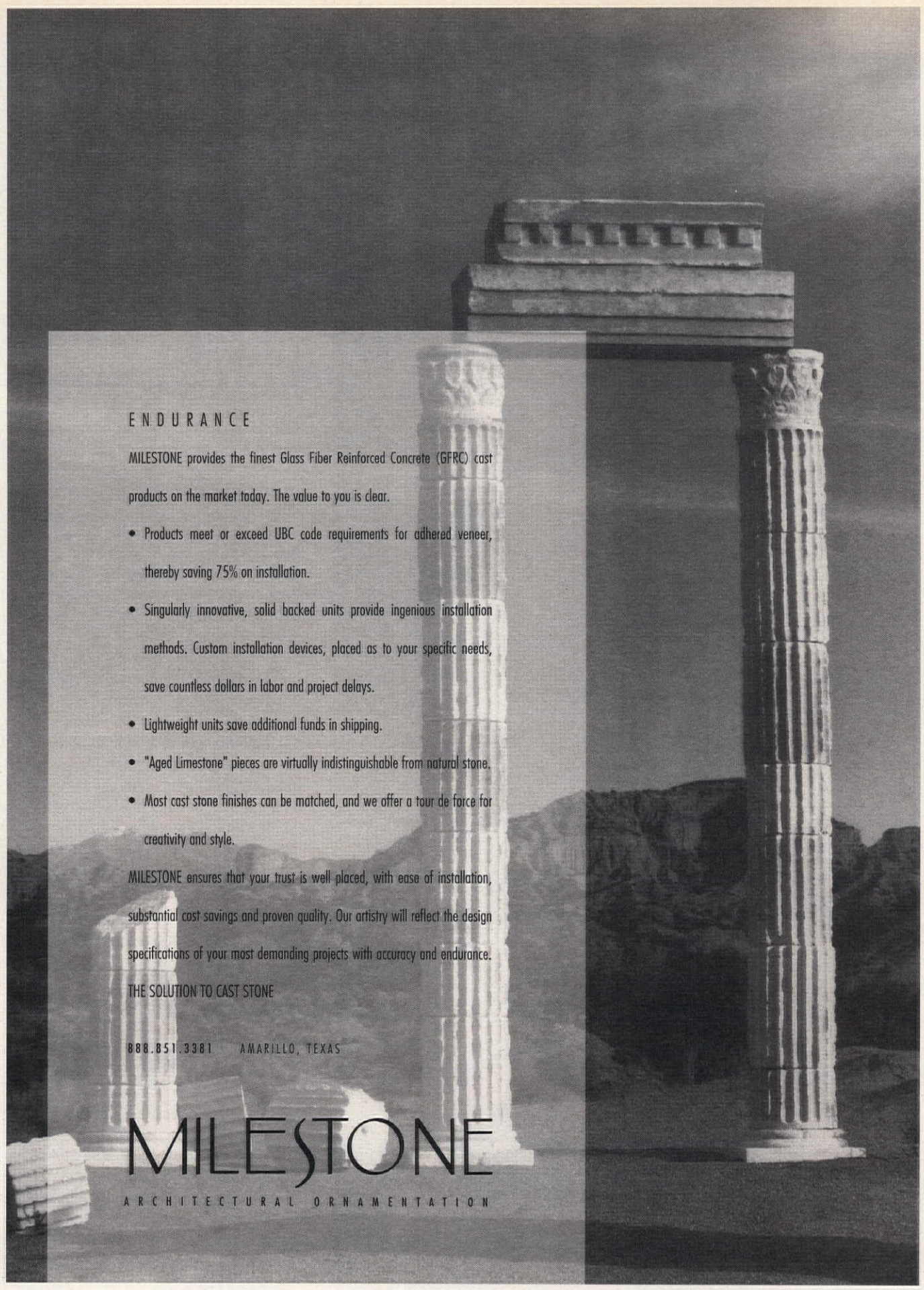

MILESTONE installation 1990, 22' Ruins, Private Property, New Mexico

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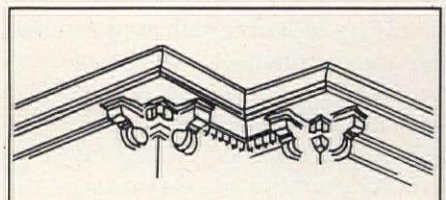

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CITY OF GOLD, continued from page 38

In two other applications at the Resort, FRP is used to wrap structural steel columns and capitals for two different porticos. The bottom photo illustrates their effectiveness when used for this boat-and-bike rental building.

Specifically, if alternative materials could deliver the same visual effect as real wood, for example, but do so with a product immune from water and temperature abuse, the customer is better served. This was the basis for evaluating each alternative material.

During the early stages of design development, the contractor would assemble costs for a particular design utilizing the architect's "design intent" of natural materials. Alternative-material suppliers would also price out the design utilizing their materials costs, the related cost increases or decreases tied to the installation of their product, and then the cost benefit of the material over time. This "value engineering" process has to be satisfied for the material to be considered on an aesthetic basis.

In evaluating FRP on this project, successful cost justification varied by application. For example, the exterior wood logs are less expensive in wood than FRP, but the installed cost, including the reduced sub framing and support members, was less with FRP. Include this cost savings with the reduced maintenance cost against dry rot, insect infestation, and repair, and the decision to use FRP becomes clear.

On other applications, however, especially those with few repetitions or structural requirements, FRP will *not* be the best alternative. The value engineering process will still identify the best alternative in a quantifiable way while allowing the building owner to use aesthetic criteria cost effectively. This "due diligence" helps to ensure the best product application for the owner.

Development of Tooling and Texture

Within the scope of the Coronado Springs Resort project, DEC Associates had to create a number of natural finishes and shapes, many of them from inception. The variety of textures included debarked logs; rough-cut wood beams; smooth stucco, and carved stone; and hammered-metal and stone-block hieroglyphic panels. All the finishes had to be achieved while still maintaining architectural and construction tolerances for ease of installation — a fabrication challenge that included the replication of an 18-ft. debarked log with a constant diameter, not tapered as found in real logs, and with a consistent grain.

We spent several weeks working with the architect to develop finishes that met the design intent. Many of the wood textures were taken from actual wood modules that were distressed to accentuate the grain. A soft latex composite skin was cast off these textures and applied to armatures to create the masters. While the wood beams required simple cladding of substructures to create a beam, the round logs proved more difficult. In order to cast in the knots and branch stubs, we again used an actual peeler log skin on the master for authenticity. This proved more economically viable since several hundred parts would be produced and post-mold detailing would be extremely labor intensive.

On the carved-stone features and hieroglyphics, the process was significantly different. Since we were recreating artwork from an actual Mayan village, artistic research with the architect was required. Utilizing photographs and historical references, full-size artwork was drawn up for review. Our concern for artistic accuracy was balanced with shapes that could be successfully cast and pulled from a mold. After being checked for any offensive translation of the hieroglyphics, a foam carving was made to include distressing and cracked-stone features to simulate a Mayan ruin.

Most parts were products utilizing fiberglass hard molds with multiple breakaway parts. This was chosen due to the large number of parts being produced that would require multiple replacement of silicone or latex-type soft molds. Only on the low-quantity or highly complex shapes were soft molds employed.

225 Molds . . . and More

As the project sits on a 142-acre site with nearly 2,000 rooms, 95,000 sq.ft. of convention space, and 235,000 sq.ft. of restaurant and retail space, the scope was large by any measure. The project, which was produced over 18 months, required over 225 molds, over 5,000 parts, and 15 48-ft. trucks to deliver. Drawing, scheduling, and tracking that large a quantity of different parts was a very significant portion of the job.

Due to the variety of part types, a few different fabrications were nominal 3/16-in. thick molded by spray-up method. All the resin utilized was a custom blended Class I modified acrylic.

The parts were all cast in NPG white gel coat for UV stability. Parts were then all field painted — incorporated into the Mayan theme. This was to conceal all attachments and seams, but it also permits simple paint touch-up to be done as a part of ongoing maintenance. In the high-traffic environment of a resort, repairs to finish must be quick and easily accomplished since areas cannot be shut down; they are often performed at night to avoid guest inconvenience.

Installation

Installation of FRP is compatible with most exterior-skin products. The typical nominal thickness of FRP is 3/16 in., so sub-framing is based at attachment points of whatever shape is being installed. FRP, except in certain applications, is primarily a decorative material. It can be used as plant-on over an existing exterior skin or as a cladding over framing, such as a cornice. Beyond its light weight, the primary benefit of FRP to both owner and installer is how it can be used to replicate virtually any surface texture with consistency of repetition, in configurations that would be impossible (and/or prohibitively expensive) with natural materials.

The installation on this project was as varied as the parts themselves, but primarily relied upon screw attachment to structural members and/or treated-wood blocking. Each part was structurally reviewed and approved for wind loading of 200 mph. In a moderate-risk hurricane area, all parts have to be structurally evaluated for connection integrity for local approval. Parts were fabricated with a caulk/lap-joint condition to allow for expansion while maintaining a water barrier. Columns were produced with a similar lap joint to allow the enclosure to go around structural support members and be "dressed out by the installer."

Implications

DEC Associates has seen a steady growth in the demand for composites in architectural applications. In historical restorations and the new trend toward fantasy-resort destinations, customers are looking for materials that offer extreme flexibility and creativity in design with greater longevity than traditional materials. Composites have been a facilitator of this trend as architects have discovered the capabilities of the material. The main resistance has been, and continues to be, education and reversing stereotypes associated with lower-quality plastics. As projects like Coronado Springs Resort continue to be built and the results become more widely known, composites will increasingly be used in architectural applications. ■

For more information regarding the use of architectural FRP products, contact the Composites Fabricators Association - Architectural Division at (703) 525-0511 or cfa-info @ cfa-hq.org. Request the "Guidelines and Recommended Practices for Fiberglass Reinforced Plastic Architectural Products."

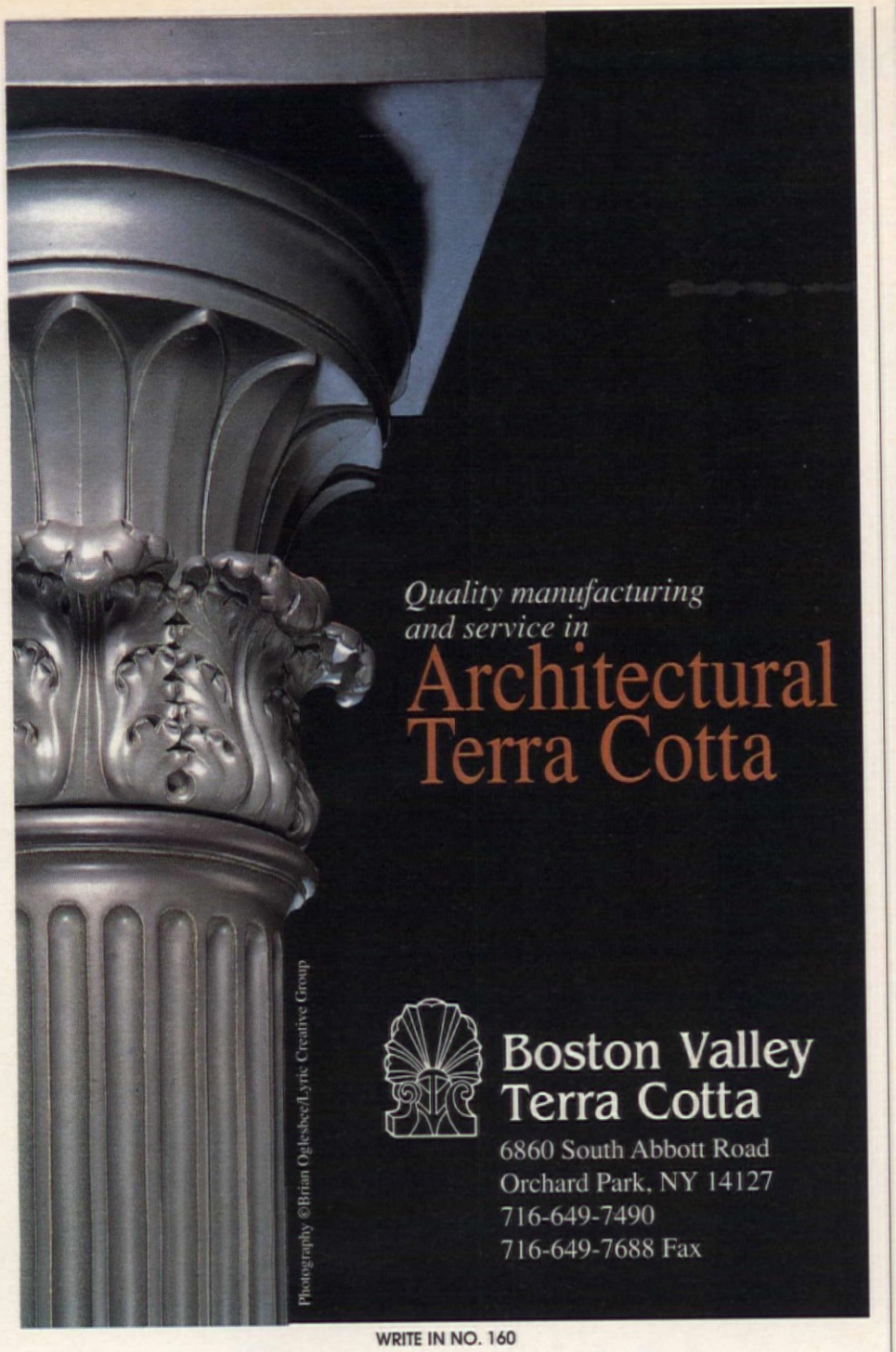
Who's on the Exterior Molded Ornament *SourceList*

Whether creating an individual gargoyle for a church restoration or a 40-ft.-long multiple-component cornice or balustrade, the development of materials for the fabrication of Exterior Molded Ornament has given the building industry a significant gift: options.

Rather than let a 100-yr.-old terra-cotta balcony disappear completely, there are more alternatives today, including replacing it with in-kind terra-cotta materials or with composites, such as GFRC or FRP. These lightweight materials often allow for the construction and installation of large or long ornamental units (see case study, pp. 38-40). And still other materials are load-bearing, in addition to being decorative, like precast concrete, which is easily cast in duplicate molds.

As Charles Wittman points out in his article in our March/April 1998 issue (p. 126), cornices are usually the first exterior ornamental element to deteriorate on a building. And cornices are just one of the elements keeping the fabricators on the following *SourceList* busy (see pp. 42-46).

We contacted 83 companies from our database that supply terra cotta, FRP, cast stone, precast concrete, GFRC, polymer-modified gypsum, and other composites. From their responses, we selected the 65 you'll find on the *SourceList*. Also included are several suppliers of moldmaking and casting materials.



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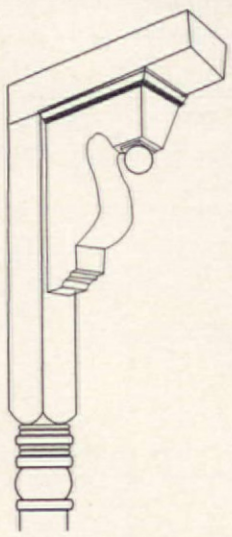

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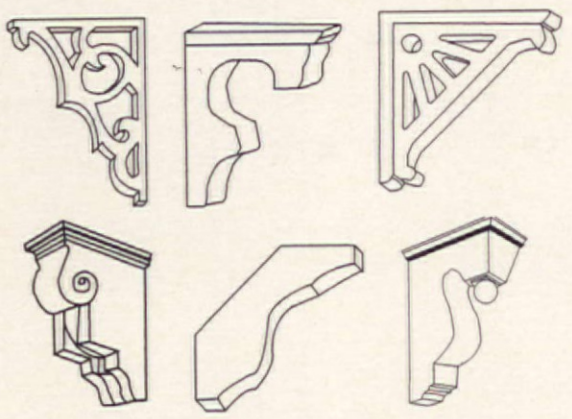

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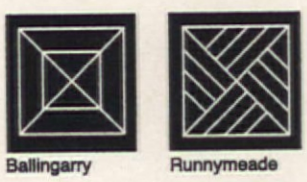

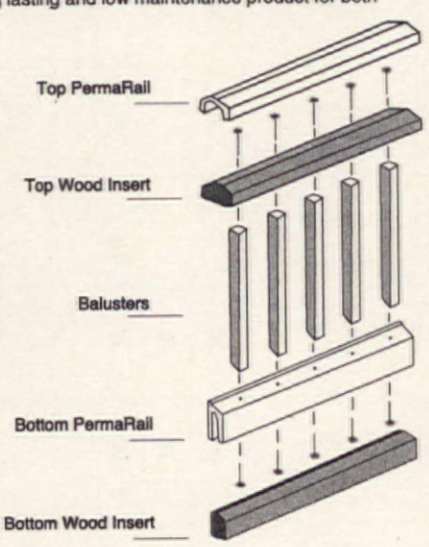

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WRITE IN NO. 1632

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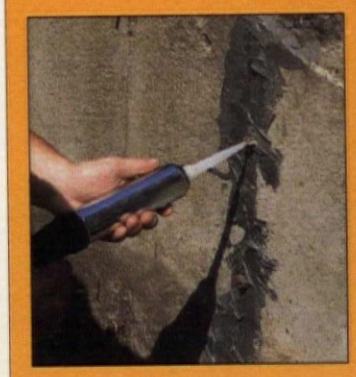

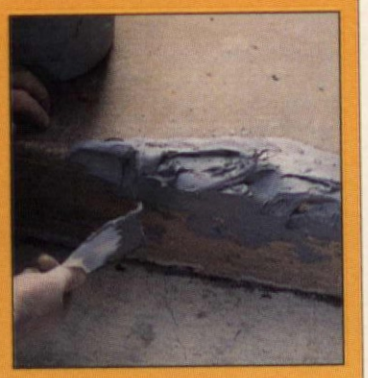

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WRITE IN NO. 1300

FABRICATION & ON-SITE RESTORATION OF

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WRITE IN NO. 5000

TRADITIONAL BUILDING'S EXTERIOR MOLDED ORNAMENT *SourceList*

CSI# 06600

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature	Types of Exterior Molded Ornament: Cornices	Columns & Capitals	Balustrades	Moldings/Trim	Molded Panels	Cupolas/Domes/Steeples	Other	Materials Used	Moldmaking Materials	% Custom
A&M Victorian Decorations, Inc. 2411 Chico Ave., Dept. TB South El Monte, CA 91733 626-575-0693; Fax: 626-575-1781	Manufactures many architectural elements in either gypsum or precast concrete: columns, molding, mantels, balustrades, wall caps, pavers, quoins, stair treads, planters, fountains, and gazebos; custom designs and finishes.	Free Write in No. 7470	✖	✖	✖	✖			Stair treads, quoins, wall caps	Precast concrete, gypsum		50%
Abatron, Inc. 5501 95th Ave., Dept. TB Kenosha, WI 53144 800-445-1754; Fax: 414-653-2019	MasterMold compounds for moldmaking, casting compounds; LiquidWood penetrating epoxy restoration systems; WoodEpox epoxy wood-paste filler; Abocrete for restoring concrete; Abojet resins for crack injection. Technical support.	Free Write in No. 1300									✖	0%
Apple Restoration & Waterproofing, Inc. 132 Bedford Ave., Dept. TB Brooklyn, NY 11211 718-599-5055; Fax: 718-599-3588	Field specialist in exterior-masonry, stone, slate, terra-cotta, and copper cleaning, restoration, repair, and waterproofing. Offers rigging and installation services.	Free Write in No. 400							Repair, restoration			100%
Archicast 2527 Broad St., Dept. TB Memphis, TN 38112 901-323-8717; Fax: 901-323-8717	Custom caster, moldmaker, and sculptor repairs and reproduces ornamental work in plaster and concrete; capitals, bases, and other elements. Molds in stock.	Free Call for more information	✖	✖	✖	✖			Architectural elements	Precast concrete, GFRG		70%
Architectural Facades Unlimited 1990 Stone Ave., Dept. TB San Jose, CA 95125 408-298-2758; Fax: 408-297-8014	Custom interior and exterior precast architectural ornamentation. On-site, full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, mantels, floor and wall fountains. Cement, plaster, GFRC, and GFRG.	Free flyer, catalog $20, refundable with purchase Write in No. 1470	✖	✖	✖	✖			Window sills, trims, lintels	GFRC, GFRG, cement, plaster		50%
Architectural Fiberglass Corp. 1395 Marconi Blvd., Dept. TB Copiague, NY 11726 800-439-2000; Fax: 516-842-4790	Reproduction of original ornamentation, or replacement from a large selection of stock styles and sizes; lightweight, easy-to-install FRP; molded-in colors and texture; class-1 fire-retardant material.	Free Write in No. 6400	✖	✖	✖	✖	✖	✖		FRP		75%
Architectural Ornament, Ltd. 216 Rivermede Road, #s 7 & 8, Dept. TB Concord, Ontario, CANADA L4K 3M6 800-567-3554; Fax: 905-738-6734	Manufacturers of high-density polyurethane moldings, accents, and trim for both new construction and renovations; quality interior/exterior products to add "curb appeal" to any building exterior.	Free	✖			✖	✖		Victorian trim, gable ornament, entryways	High-density polyurethane		5%
Architectural Products by Outwater P.O. Box 347, Dept. TB Wood-Ridge, NJ 07075 800-631-8375; Fax: 800-888-3315	Major stocking supplier of more than 20,000 ready-to-ship building component products in categories which include interior/exterior architectural millwork, columns, decorative moldings and trim, hardware, lighting, and more.	Free Write in No. 4939	✖	✖	✖	✖	✖		Architectural elements	Polymer and resin blends, fiber and marble composites		10%
Architectural Reproductions 525 North Tillamook St., Dept. TB Portland, OR 97227 503-284-8007; Fax: 503-281-6926	Produces exterior work in solid concrete and cast stone, as well as glassfiber-reinforced thin-shell materials with integral finishes and applied coatings; shop drawings, modeling, and moldmaking services.	Free Write in No. 6130	✖	✖	✖	✖	✖			FRP, GFRC, polymer-modified gypsum, cast stone		95%
Artistic Architecture Corp. 119 Hausman St., Dept. TB Brooklyn, NY 11222 800-383-0603; Fax: 718-218-9318	Specialists in historic restorations & replacement of terra cotta with GFRC, FRP or cast stone without sacrificing original design color, texture or details. On-site and in-house moldmaking and installation.	Free Write in No. 8710	✖	✖	✖	✖	✖	✖		GFRC, FRP, cast stone		100%
Ball Consulting 338 14th St., Suite 201, Dept. TB Ambridge, PA 15003 412-266-1502; Fax: 412-266-1504	Supplies Forton-modified-gypsum casting system for creating interior and exterior architectural and landscape elements. Consulting and technical service. GFRC and Polytek mold-making materials. Studio for training and prototyping.	Free Write in No. 7260								GFRC, polymer-modified gypsum	✖	100%
Boston Valley Terra Cotta 6860 S. Abbott Rd., Dept. TB Orchard Park, NY 14127 716-649-7490; Fax: 716-649-7688	Manufactures quality architectural terra cotta for restoration and new buildings. Site and survey work: photo documentation, drawings/CAD, computer spreadsheets, moldmaking, fine detail work, and color matching.	Free Write in No. 160		✖	✖	✖				Terra cotta		100%
Cantera Especial 15332 Antioch St., #343, Dept. TB Pacific Palisades, CA 90272 800-713-8577; Fax: 818-907-0343	Machine- and hand-carved products made from Cantera and Adoquin stone, limestone, and sandstone quarried from Mexico; can make all types of fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters and custom products.	Free Write in No. 31		✖	✖	✖	✖		Quoins, stair treads	Stone		100%
Cast Designs & Supply, LLC P.O. Box 962, Dept. TB Shelbyville, TN 37162 931-685-0536; Fax: 931-685-0990	Complete line of interior and exterior architectural products, hand-crafted in reinforced plaster, including moldings, ceiling medallions, wall niches, mantels, and domes. Standard catalog and custom restoration.	Free Write in No. 451										10%
Cathedral Stone Products, Inc. 8332 Bristol Ct., #107, Dept. TB Jessup, MD 20794 800-684-0901; Fax: 301-317-4670	Jahn restoration-mortar manufacturer. Compatible patching mortars for the repair of any masonry surface. Cementitious, non-polymer mortars are breathable at any thickness, easy to apply. Standard and custom colors available.	Free Write in 9580							Jahn restoration mortars			N/A
Chadsworth's 1.800.Columns 277 N. Front St., Dept. TB Historic Wilmington, NC 28401 1-800-COLUMNS; Fax: 910-763-3191	Custom and stock columns, pillars, pilasters, and posts; capitals; interior and exterior; plain or fluted; round, square, octagonal; all styles and sizes; wood, PolyStone, fiberglass; job-site delivery; 72-hour quick ship; worldwide shipping.	Free Write in No. 1580 for Polystone		✖	✖					Polystone		75%
Classic Cast Stone of Dallas 3162 Miller Park Dr. N., Dept. TB Garland, TX 75042 972-276-2000; Fax: 972-272-6400	Custom manufactures cast-stone columns, capitals, and a wide range of other cast architectural ornament, such as copings, wall caps, and mantels.	Free Write in No. 2530		✖		✖			Wall caps	Cast stone		75%
Classic Terra Cotta Co. 601 S. Palm Ave., Dept. TB Alhambra, CA 91803 626-300-8489; Fax: Same as phone	Handmade, custom terra-cotta products in the style of the 16th-century Italian Renaissance, including hand-painted majolica tile murals, planters, vases, urns, and sculptural bas-reliefs.	Free Write in No. 769							Bas reliefs	Terra cotta		100%
Concrete Designs, Inc. 3650 S. Broadmont Dr., Dept. TB Tucson, AZ 85713 800-279-2278; Fax: 520-624-3420	Manufactures over 1,600 precast-concrete and GFRC items, including moldings, door and window surrounds, balustrades, columns, mantels, and site furnishings. Also, GFRC details; custom work available.	Free Write in No. 5190		✖	✖	✖				Cast stone, GFRC		20%
Continental Cast Stone Mfg., Inc. 22001 West 83 St., Dept. TB Shawnee Mission, KS 66227 800-989-7866; Fax: 913-422-7272	Architectural elements in cast stone made from natural sands, selected cements, and special aggregates to replicate limestone, sandstone, bluestone, granite, terra cotta, and other natural stones.	Free Write in No. 6940		✖	✖	✖				Cast stone		100%
DEC Associates 1620 S. Sinclair St., Dept. TB Anaheim, CA 92806 714-937-0400; Fax: 714-937-0440	Offers line of standard architectural items, as well as custom manufacturing; items are manufactured in fiberglass and GRG. Also supplies custom aggregate finishes. Products supplied with integral texture and finish, with a Class I fire retardant.	Free Write in No. 719	✖	✖	✖	✖	✖	✖		FRP, GRG		75%

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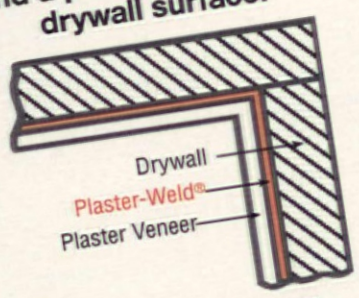

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WRITE IN NO. 8630

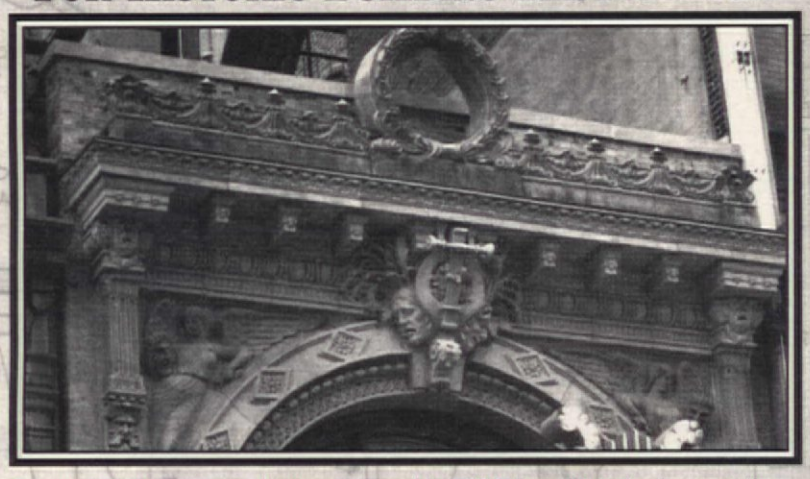
TRADITIONAL BUILDING'S EXTERIOR MOLDED ORNAMENT *SourceList*

CSI# 06600

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature	Types of Exterior Molded Ornament							Materials Used	Moldmaking Materials	% Custom
			Cornices	Columns & Capitals	Balustrades	Moldings/ Trim	Molded Panels	Cupolas/Domes/ Steeples	Other			
DiLeo Studio 504 E. Hampton St., Dept. TB Darlington, SC 29532 843-395-9453; Fax: Same as phone	Relief and fully three-dimensional carving in limestone and marble. Other services include wood carving, rubber moldmaking, and casting of plaster and resin ornament.	Free Write in No. 721		✖	✖				Resin			100%
Doty & Sons Concrete Products 1275 East State St., Dept. TB Sycamore, IL 60178 800-233-3907; Fax: 815-895-8035	Concrete litter receptacles in over 34 styles, recycling receptacles, products using recycled plastic lumber, 17 bench styles, 55 sizes of planters, bollards, and table sets. Finishes include exposed aggregate, sandblast, colored.	Free Write in No. 2090							Site furnishings			10%
duoMATRIX 2000 St. John St., Dept. TB Easton, PA 18042 800-762-0744; Fax: 610-252-6200	Manufactures a line of polymer-based modifiers that can be added to gypsum products for outdoor applications.	Free								Polymer modified gypsum	✖	N/A
Durastone 66 Milliken St., Dept. TB Portland, ME 04103 207-797-3552; Fax: 207-797-3800	Historical reproductions and custom architectural details; replicating granite, limestone, bluestone, and brownstone; ornamental arches, sills, and lintels; signage panels, watertables.	Free Write in No. 3650	✖	✖	✖	✖	✖			GFRC, polymer-modified gypsum, cast stone		100%
Edmon's Unique Furniture & Stone Gallery 5174 Melrose Ave., Dept. TB Los Angeles, CA 90038 213-462-5787; Fax: 213-462-5894	Hand-carved wood mantels, hand-carved woodwork; cast-stone mantels, etc. All types of carved and cast architectural elements, furniture, and decorative accents.	Free Write in No. 5690										75%
Essex Works, Ltd. 843 Meeker St., Dept. TB Brooklyn, NY 11222 718-218-8800; Fax: 718-218-8048	Specialist in fine-art fabricating and casting interior and exterior ornamental details. Pattern and mold work done on-site; shop fabrication in GFRC, cast stone, and precast concrete.	Free Write in No. 7200	✖	✖	✖	✖	✖			FRP, GFRC, Polymer-modified gypsum, cast stone		100%
Estler & Foley Studios, Inc. 54 Sea Cliff Ave., Dept. TB Sea Cliff, NY 11579 516-656-0922; Fax: 516-656-0923	Landmark restoration and custom fabrication company can recreate any architectural ornament or sculpt fantastic themework elements in GFRC, cast stone, FRP, or modified gypsum. On-site moldmaking, design, and engineering.	Free Write in No. 695	✖	✖	✖	✖	✖	✖	Sculpture, ornament	FRP, GFRC, cast stone, modified gypsum		100%
Federal Stone Industries 142 Water St., Dept. TB Thurmont, MD 21788 301-271-7121; Fax: 301-271-1870	Precast-concrete deck pavers, lintels, keystones, and copings; wall, bullnose, automatic pool-cover coping, depth-marker coping, drain systems, and bullnose-brick coping for swimming pools and inground spas. Custom sizes.	Free Write in No. 2340							Lintels, keystones	Precast concrete		20%
Flaharty, David - Sculptor 1064 Magazine Rd., Dept. TB Green Lane, PA 18054 215-234-8242; Fax: Same as phone	Classically trained, Flaharty does carving, cast metals, architectural conservation, replication, restoration, and consultation. Works in all traditional and modern materials. Recent additions to Victorian medallion collection.	Free		✖		✖				Polymer-modified gypsum, Forton MG		100%
Flex Moulding, Inc. 16 E. Lafayette St., Dept. TB Hackensack, NJ 07601 201-487-8080; Fax: 201-487-6637	This company offers over 3,000 flexible and rigid moldings, spot decorations, simulated wood carvings, and more; rigid and flexible materials; custom casting and moldmaking capabilities. Restoration casting.	Free Write in No. 4900										40%
Foam Technology/Symmetry Products 20 Moshassuck Rd., Dept. TB Lincoln, RI 02865 401-723-3626; Fax: 401-726-3490	Designs and manufactures foam with hard-polymer finishes for cornices, cupolas, and domes; lightweight and structural; no mold charge; said to be more cost-effective than fiberglass or precast; range of integral colors and finishes.	Free Write in No. 4140	✖	✖	✖	✖	✖	✖		Foam products		90%
Foam Works/ Storyland Studios 532 Third St., Dept. TB Lake Elsinore, CA 92530 909-674-0998; Fax: 909-674-0245	Design, manufacture, and install architectural elements for exterior facades and themed environments. See website: www.foamworks.com.	Free Write in No. 774	✖	✖	✖	✖	✖	✖		Epoxy composites over EPS		100%
Freedman Studios, L.H. 368 Congress St., 5th floor, Dept. TB Boston, MA 02210 617-426-8887; Fax: Same as phone	Sculpture studio specializing in preservation, conservation, restoration, custom art design, environmental design, and architectural detail. Casting and moldmaking a specialty. Materials include simulated marble and gilded ornament.	Free Write in No. 6390										100%
Futura Coatings, Inc. 9200 Latty Ave., Dept. TB Hazelwood, MO 63042 314-521-4100; Fax: 314-521-7255	Manufacturer of high-performance, spray-in-mold structural polyurethanes and foam for quickly fabricating elaborate architectural moldings and accents. Also, "Styrothane" coating for lightweight EPS or foam.	Free	✖	✖	✖	✖	✖	✖		Polyurethanes and polyureas	✖	100%
Fypon, Ltd. 22 West Pennsylvania Ave., Dept. TB Stewartstown, PA 17363 800-537-5349; Fax: 717-993-3782	Offers a full line of over 4,000 molded architectural elements: window features, turnings, columns, brackets, and more in high-density polymer and other polymers. Line of load-bearing polymer/steel columns, maximum diameter 12 in.	Free Write in No. 6170	✖	✖	✖	✖	✖			Polymers		20%
Gladding McBean, Div. of Pacific Coast Bldg. 601 7th St., P.O. Box 97, Dept. TB Lincoln, CA 95648 800-776-1133; Fax: 916-645-1723	Traditional producers of terra-cotta roof tile, chimney tops and caps, flue liners; glazed pottery and wall coping, in standard or custom designs.	Free Write in No. 6010	✖	✖	✖	✖	✖		Sculpture, seals, gargoyles, archways, chimney caps	Terra cotta		100%
GoldenWest Mfg., Inc. P.O. Box 1148, Dept. TB Cedar Ridge, CA 95924 530-272-1133; Fax: 530-272-1070	Custom reproductions of wood carvings, such as signs and decor. Also, source for casting resins, rubber molding materials, supplies.	Free				✖	✖		Signage	Urethane casting resin	✖	95%
Haddonstone (USA), Ltd. 201 Heller Pl., Dept. TB Bellmawr, NJ 08031 609-931-7011; Fax: 609-931-0040	British designer/manufacturer of classical stonework, using cast, reconstructed limestone resembling Portland stone. Over 500 designs of architectural and landscape elements that weather naturally. Custom-design capabilities.	Free Write in No. 4020		✖	✖	✖				Reconstructed limestone		25%
Johnson Atelier 60 Ward Ave. Ext., Dept. TB Mercerville, NJ 08619 609-890-2777; Fax: 609-890-2771	Design consultation, pattern development, custom modeling, enlargements, moldmaking; lost-wax and sand casting for bronze, aluminum, and ductile iron. Fabrication in most metals. Restoration; delivery; installation.	Free Write in No. 7330									✖	100%
Landmark Studios 59 Lower Kingtown Rd., Dept. TB Pittstown, NJ 08867 908-730-8895; Fax: 908-730-8851	Custom modeling, moldmaking, and casting. Replication of stone, terra cotta, and plaster. On-site (exterior and interior) restoration of existing stone and plaster work. Field molds taken and 'dutchman' repairs made.	Free Write in No. 5000	✖	✖	✖	✖	✖	✖		Terra cotta, GFRC, polymer-modified gypsum, cast stone		90%
Larsen Products Corp. 8264 Preston Ct., Dept. TB Jessup, MD 20794 800-633-6668; Fax: 301-776-2723	Surface-applied bonding agents for interior and exterior applications of plaster; acrylic admixture to modify portland cement, plaster, and mortar.	Free Write in No. 226								Bonding agents		N/A
Little Giant Mfg. Co. P.O. Box 518, Dept. TB Orange, TX 77630 800-231-6035; Fax: 409-883-9605	Established in 1904, company manufactures fiberglass church products: baptistries, crosses, steeples, spires. Also, church lighting fixtures.	Free Write in No. 452						✖		Fiberglass		20%

CUSTOM CAST STONE, GFRC AND GRG FOR HISTORIC BUILDING RESTORATION



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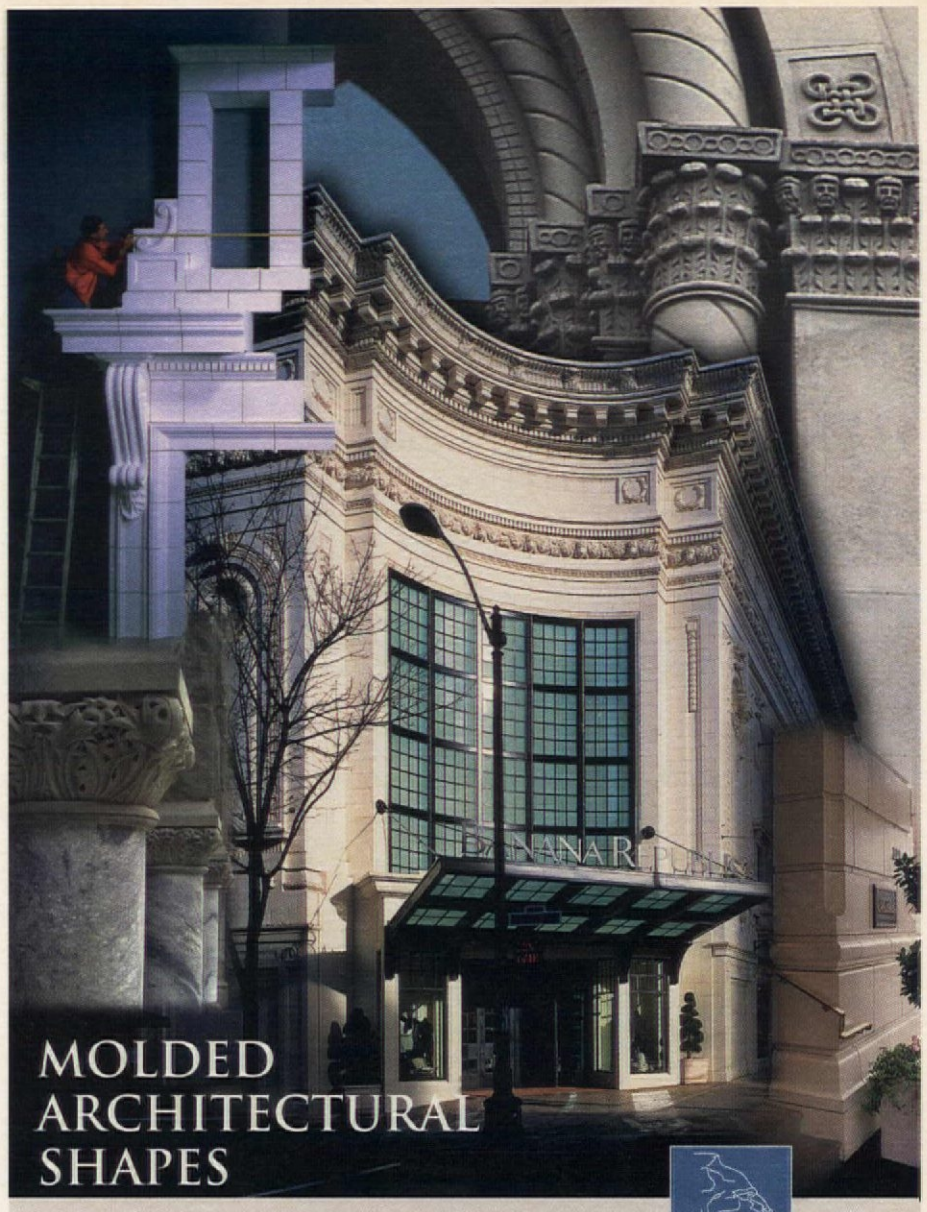

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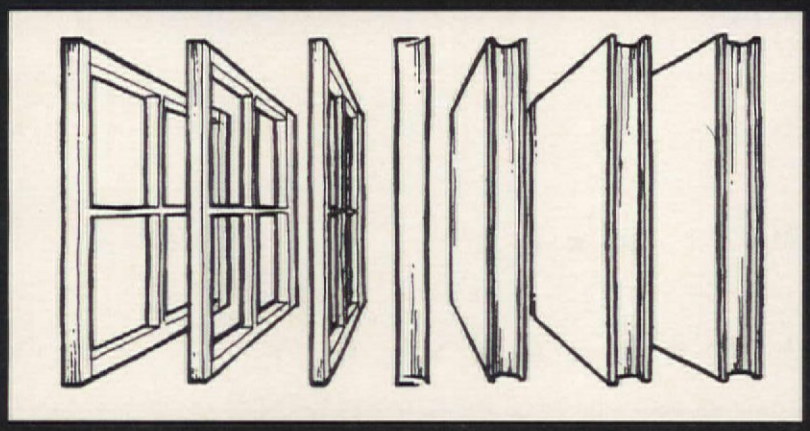

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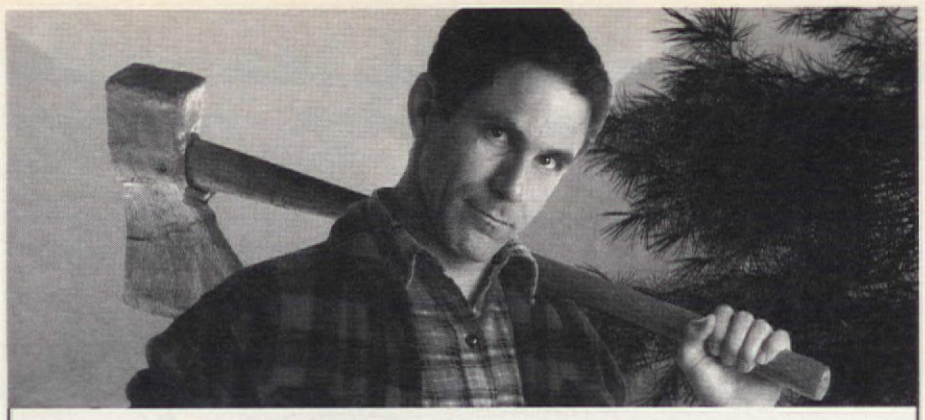
WRITE IN NO. 7260

TRADITIONAL BUILDING'S EXTERIOR MOLDED ORNAMENT *SourceList*

CSI# 06600

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature	Types of Exterior Molded Ornament							Materials Used	Moldmaking Materials	% Custom
			Cornices	Columns & Capitals	Balustrades	Moldings/Trim	Molded Panels	Cupolas/Domes/Steeples	Other			
Manor Style, Ltd. 6741 Whitestone Rd., Dept. TB Baltimore, MD 21207 800-325-2188; No fax	National source for exterior architectural polymer/FRP products, including cornices, large balustrades, columns and capitals, brackets, and more. "Focal Point" distributor. Shop drawings, and custom fabrication available.	Free Write in No. 703		✖	✖	✖				Poly/marble composite, cast stone, FRP		80%
Melton Classics, Inc. P.O. Box 465020, Dept. TB Lawrenceville, GA 30042 800-963-3060; Fax: 770-962-6988	Classical & custom columns, round or square profiles, plain or fluted shafts, all sizes; in fiberglass, synthetic stone, poly/marble composite, or wood. MarbleTex synthetic-stone balustrades, custom colors; custom designs available.	Free Write in No. 4100		✖	✖					Fiberglass, synthetic stone, poly/marble		80%
Milestone, Inc. 2604 South Arthur, Dept. TB Amarillo, TX 79109 806-342-4302; Fax: 806-373-2101	One-piece structural columns of PAAC (precast autoclaved aerated concrete); source for cast decorative elements and columns in GFRC with special antique patinated finish. Elements include temples, obelisks, fountains, and "ruins".	Free Write in No. 493	✖	✖	✖	✖	✖	✖	Temples, other elements	GFRC, cast stone, PAAC		90%
Moldmaking & Design, Inc. 117 South Cook St., #215, Dept. TB Barrington, IL 60010 847-277-0889; Fax: 847-277-0901	Sculptural studio makes molds and castings for architectural restoration (including on-site work), sculptural fabrication, concept prototyping. Castings done in urethane resins, metals, faux metal, faux stone, and other materials.	Free					✖		Sculptural castings	Polymer modified gypsum		100%
Moonlight Molds, Inc. 17110 South Main St., Dept. TB Gardena, CA 90248 310-538-9142; Fax: 310-538-9717	Architectural cast products (columns, capitals, cornices, brackets, balustrades, etc.) in a wide range of materials, colors, and textures; standard and custom shapes.	Free Write in No. 9670	✖	✖	✖	✖	✖		Brackets, keystones, bas reliefs	FRP, GFRC, cast stone		50%
North American Stone Company P.O. Box 2300, Dept. TB McKinney, TX 75070 972-562-9992; Fax: 972-562-0794	Manufactures custom architectural cast-stone elements. Products include: fireplace mantels, balustrade systems, columns, exterior and interior elements, pots, urns, and specialty items. Design assistance.	Free Write in No. 754	✖	✖	✖	✖	✖		Entryways, signage, landscape elements	Cast stone		80%
Pearlworks 752 N. Batavia Ave., Dept. TB Orange, CA 92868 714-633-1078; Fax: 714-289-9665	Full project design services, including artists' renderings; custom and in-stock castings, including fine carved architectural ornamentation, corbels, moldings, and ceiling systems. Full catalog available.	Free Write in No. 706		✖		✖	✖	✖	Ceilings	Polyester, resin, wood	✖	100%
Perma-Flex Mold Co., Inc. 1919 East Livingston Ave., Dept. TB Columbus, OH 43209 614-252-8034; Fax: 614-252-8572	Liquid rubber-molding compounds to make flexible molds, pourable or brush-applied; very soft to rigid systems; polyurethane and RTV silicone. Call for technical assistance. Also, rigid-polyurethane casting systems.	Free Write in No. 7340									✖	N/A
Plastic Tooling Supply Co. 303 Commerce Dr., Dept. TB Exton, PA 19341 800-327-8787; Fax: 610-524-1004	This company distributes materials for manufacturing molded ornament for interior and exterior use, such as: RTV silicones, polyurethanes, epoxy, fiberglass, FRG, and more.	Free Write in No. 435								RTV silicones, polyurethanes, epoxies, fiberglass	✖	100%
Polymeric Systems 723 Wheatland St., Dept. TB Phoenixville, PA 19460 800-228-5548; Fax: 610-935-7123	Instacrete is a hand-mixable epoxy putty that sets rock-hard in minutes; used for patching, anchoring, sealing, and re-pointing. Repair epoxy for masonry.	Free Write in No. 5948 for masonry-repair products								Epoxy putty		N/A
Polytek Development Corp. 55 Hilton St., Dept. TB Easton, PA 18042 610-559-8620; Fax: 610-559-8626	Liquid rubber and liquid plastics for flexible molds and castings, used for quality reproduction of carvings, sculpture, interior and exterior architectural ornaments, and restoration.	Free Write in No. 6360									✖	N/A
PRG, Inc. P.O. Box 1768, Dept. TB Rockville, MD 20849 301-309-2222; Fax: 301-279-7885	Books, instruments, products, & tools related to preservation and repair of architectural materials and elements, including windows; "environmentally-friendly" wood preservatives; epoxies for wood repair (cosmetic and structural).	Free Write in No. 3030								Epoxies, literature		N/A
Royal Corinthian P.O. Box 1321, Dept. TB Wheaton, IL 60189 888-265-8661; Fax: 630-510-7241	Manufactures columns, balusters, and rails in synthetic polymer/stone materials.	Free Write in No. 76		✖	✖	✖				Synthetic polymer/stone		25%
Seal Reinforced Fiberglass, Inc. 23 Bethpage Rd., Dept. TB Copiague, NY 11726 516-842-2230; Fax: 516-842-2276	Stock and custom garden pools, waterfalls, planters, and rock features. FRP building components, stock and custom cornices, cupolas, and brackets. Full-service mold and tool fabricators. On-site molds.	Free Write in No. 4620	✖	✖	✖	✖	✖	✖		FRP	✖	90%
Sierra Architectural Cast Stone 1038 St. Gregory St., Dept. TB Cincinnati, OH 45202 800-333-9302; Fax: 513-665-2005	Hand-cast architectural elements in "Sierra Stone" (cast stone) and "Sierra Stone Lite" (FRP cast stone); hundreds of shapes, custom shapes available; international projects; commercial, residential, and hospitality projects.	Free Write in No. 236	✖	✖	✖	✖			Landscape items	Cast stone, FRP, cast stone		100%
Silicones, Inc. P.O. Box 363, Dept. TB High Point, NC 27261 336-886-5018; Fax: 336-886-7122	Manufactures moldmaking silicones used for reproduction of ornamental moldings.	Free	✖	✖			✖	✖			✖	N/A
Smooth-On, Inc. 2000 St. John St., Dept. TB Easton, PA 18042 800-762-0744; Fax: 610-252-6200	Extensive line of liquid-rubber compounds for making molds to reproduce any original; pour-, brush-, or spray-on application. Also, complete line of liquid casting plastics and mold-release products. Free samples and technical help.	Free Write in No. 650									✖	N/A
Stone Legends 301 Pleasant Dr., Dept. TB Dallas, TX 75217 800-398-1199; Fax: 214-398-1293	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630		✖	✖	✖			Steps, quoins	Cast stone		50%
Style-Mark, Inc. P.O. Box 301, Dept. TB Archbold, OH 43502 800-446-3040; Fax: 419-445-0116	Rigid high-density polyurethane millwork and building accents: Exterior and interior moldings, porch panels, spandrel sections, gingerbread, louvers, door trims, ceiling medallions. "E-Vent" moldings serve as soffit ventilation.	Free Write in No. 553	✖		✖	✖			Louvers, entryways, trim, window trim	Polyurethane		5%
Towne House Restorations 58-15 49th Pl., Dept. TB Maspeth, NY 11378 718-326-4210; Fax: 718-326-1344	Custom fabricators of interior and exterior molded GRG, GFRC, and cast stone. Replication of existing original materials: limestone, terra cotta, and brownstone. Molds fabricated from existing building units, or custom made from architectural drawings or photographs.	Free Write in No. 545	✖	✖	✖	✖				GRG, GFRC, cast stone		85%
Vista F.R.P. Products, Ltd. 403 Clements Road West, Dept. TB Ajax, Ontario, CANADA L1S 6N3 800-408-9613; Fax: 905-428-3308	FRP cornices, columns, and architectural ornamentation for hotels, churches, casinos, and retail. Specialist in the replication of natural materials, such as terra cotta and limestone.	Free	✖	✖	✖	✖	✖		Architectural ornament	FRP		90%
Worthington Group P.O. Box 868, Dept. TB Troy, AL 36081 800-872-1608; Fax: 334-566-5390	Supplier of true classical columns in all the basic orders. Also, Lifestone columns and balustrades, panel mantels and cornice moldings, brackets, and mantels; new PermaPorch system elements.	Free Write in No. 1632 for balustrades, No. 1630 for columns		✖	✖	✖						0%



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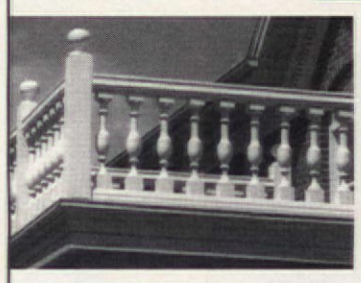

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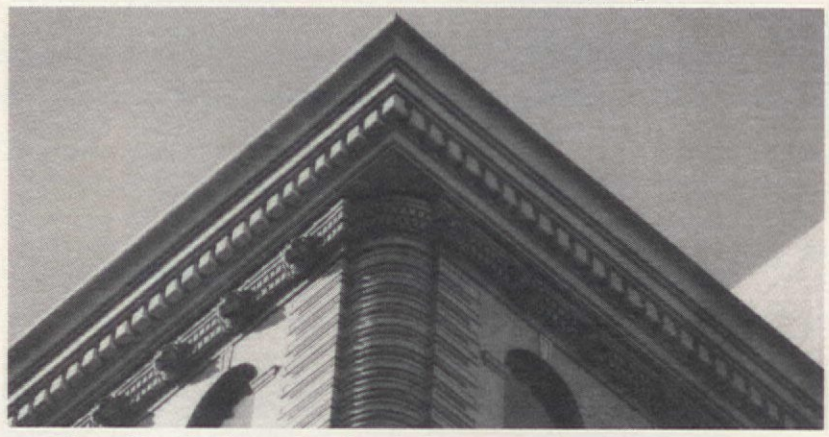

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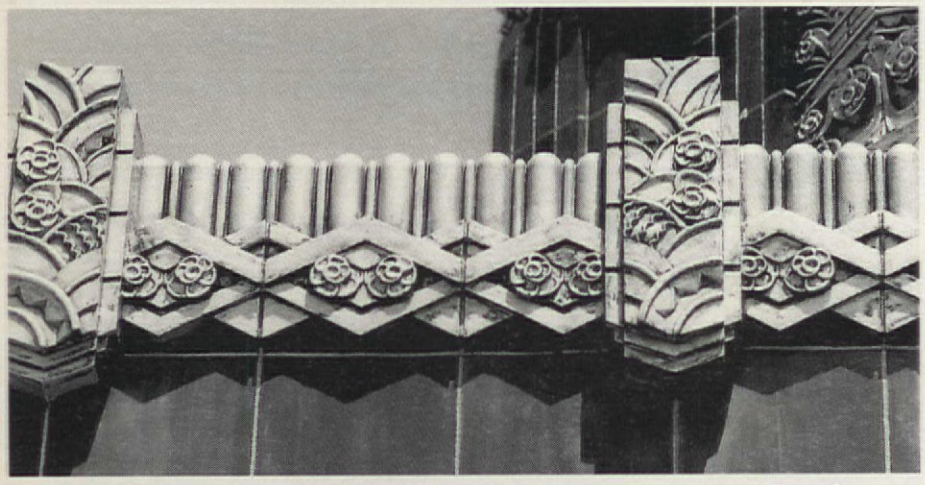
EXTERIOR MOLDED ORNAMENT PORTFOLIO

For more information on these companies, consult the SourceList on pp. 42-46.

BOSTON VALLEY TERRA COTTA replicated polychromed terra cotta at the historic Ca' d'Zan estate in Sarasota, Fla., producing more than 1000 units of terra cotta overall. *Write in No. 160*

ESTLER & FOLEY STUDIOS sculpted and molded this FRP gargolyle for St. Patrick's Church in Glen Cove, L.I. *Write in No. 695*

To replace terra-cotta balusters, piers, and copings that were badly damaged from a rusting steel framework in the Franklin Building in Salem, Ore., ARCHITECTURAL REPRODUCTIONS reproduced precast concrete pieces with applied coatings and installed them over noncorrosive framing. *Write in No. 6130*



FUTURA products are used by fabricators of exterior molded ornament, including Treadway Industries, who used their hardcoat over carved EPS and molded other parts with one of their structural polymers.

ARCHITECTURAL FIBERGLASS CORP. replicated the cornice of the 1907 Yonkers, N.Y., City Hall with an FRP piece that matched the color and texture of the 665-lft. long original. The piece has rosettes, mitered corner detailing. *Write in No. 6400*

This house benefits from an elegant ARCHITECTURAL FACADES UNLIMITED, INC., entryway, including a style II balustrade flush-line system, pavers, and stair treads. *Write in No. 1470*

ESSEX WORKS created GFRC headers and precast-concrete column, window, and door surrounds for this retail store along Manhattan's Fifth Avenue. *Write in No. 7200*

ARCHICAST restored and recast capitals and moldings for the "Joy Cottage" in Aiken, South Carolina. *Write in No. 304*

CONTINENTAL CAST STONE MANUFACTURING provided precast stone for the Denver Central Public Library, designed by Michael Graves & Associates with Klipp, Colussy, Jenks, Dubois Architects. The Architectural Precast Association commended the "painterly quality" of the color and texture of the cast stone. *Write in No. 6940*

CLASSIC CAST STONE OF DALLAS created the cast-stone elements that make up this impressive portico: columns, balustrade, and window surrounds. *Write in No. 2530*

MOONLIGHT MOLDS created this enormous facade in FRP and GFRC for the Silver Legacy Hotel and Casino in Reno, Nev.; the figure in the niche stands 9 feet tall. *Write in No. 9670*

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WRITE IN NO. 553

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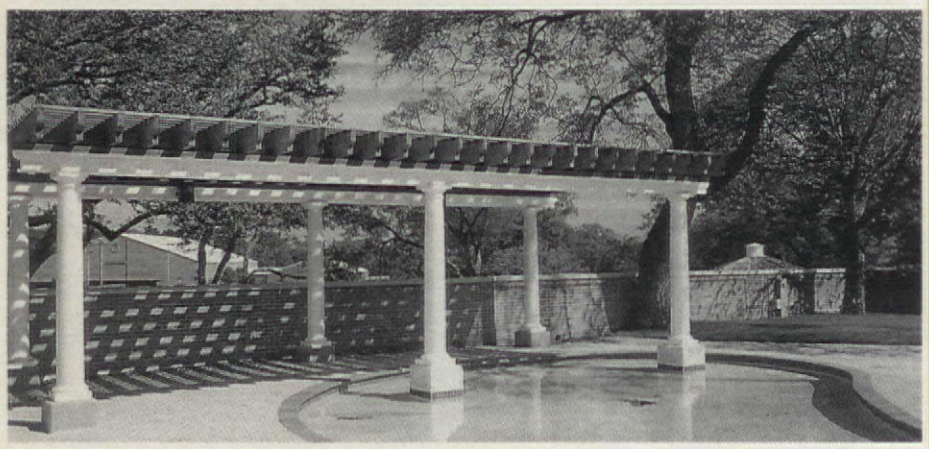
"When contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building."
— The Editors

EXTERIOR MOLDED ORNAMENT PORTFOLIO

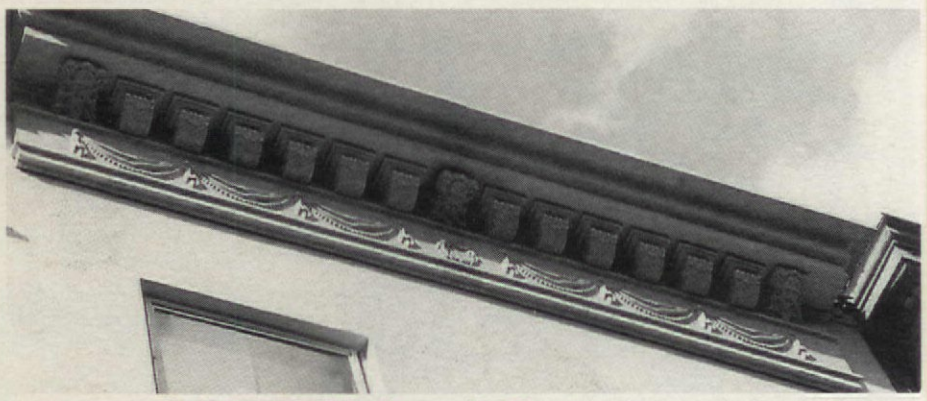
For more information on these companies, consult the SourceList on pp. 42-46.

Here, Steve Brenna gets a little help inspecting a PAAC column — one of many architectural elements that MILESTONE, INC., cast for a storefront in Amarillo, Tex. *Write in No. 495*

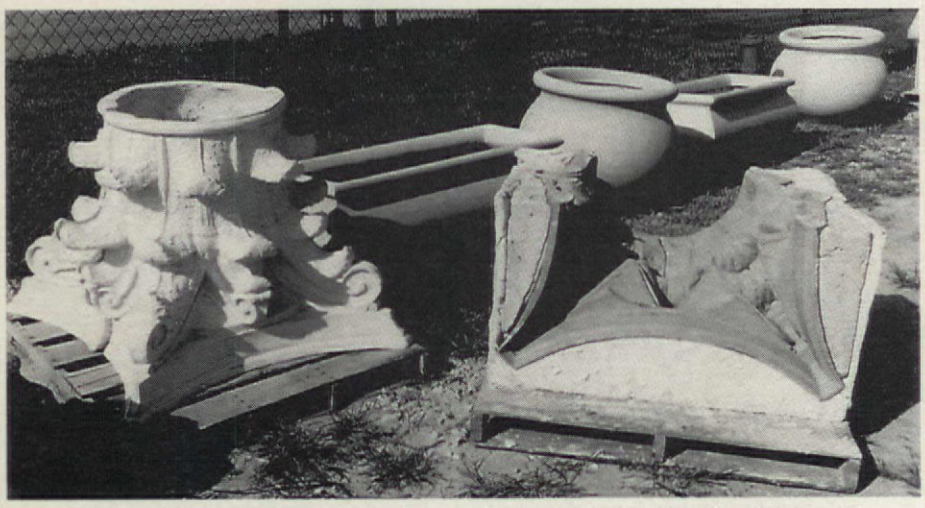
FYPON acanthus polymer wall brackets #694 and leaf molding #931 give this pergola added elegance. *Write in No. 6170*



This poolside pergola is supported by handsome Polystone columns from CHADSWORTH'S 1.800.COLUMNS. *Write in No. 1580 for Polystone or No. 180 for wood*



SEAL REINFORCED FIBERGLASS matched the original cornice and recast it in FRP for this Manhattan apartment building. *Write in No. 4620*



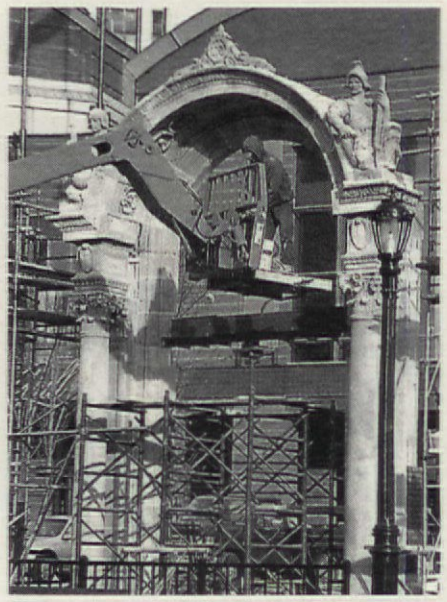
These large column capital molds were created using POLYTEK Polygel Spray 50 liquid rubber, and the resulting capitals were installed at the Ritz Hotel in Pittsburgh, Pa. *Write in No. 6360*

FOAM WORKS refaced a commercial building in Los Angeles, Calif., adding classical details, like the window surrounds and detailed ledge, in a urethane-coated EPS. *Write in No. 774*

ARTISTIC ARCHITECTURE CORP. replicated the sheetmetal cornice and belt course in FRP for this historic landmark in Poughkeepsie, N.Y. *Write in No. 8710*

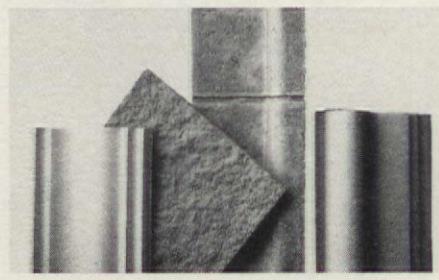
This skull now decorates the trendy Manhattan restaurant Jekyll & Hyde, along with other GFRC architectural ornaments that were cast with molds made by SMOOTH-ON moldmaking rubber. *Write in No. 650*

LITTLE GIANT manufactures a wide range of fiberglass steeples, and the lightweight material is easy to install on existing structures. *Write in No. 452*



The entry arch of the old Military Park Hotel was re-erected on the same site, now the New Jersey Performing Arts Center. LANDMARK STUDIOS recreated and cast about a third of the original carved limestone pieces, most of which were solid cast for use in load-bearing areas. *Write in No. 5000*

YANKEE STEEPLEJACK has installed and repaired every kind of steeple imaginable — from stock molded units to complex custom jobs. *Write in No. 3480*



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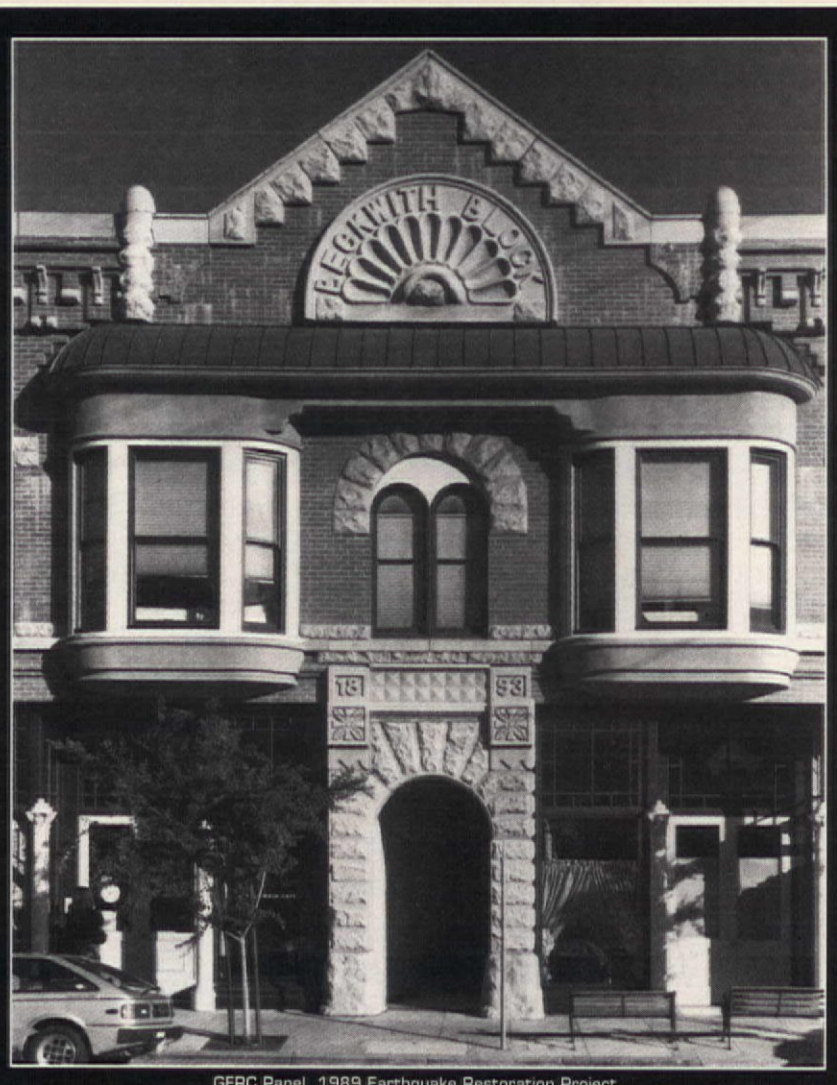

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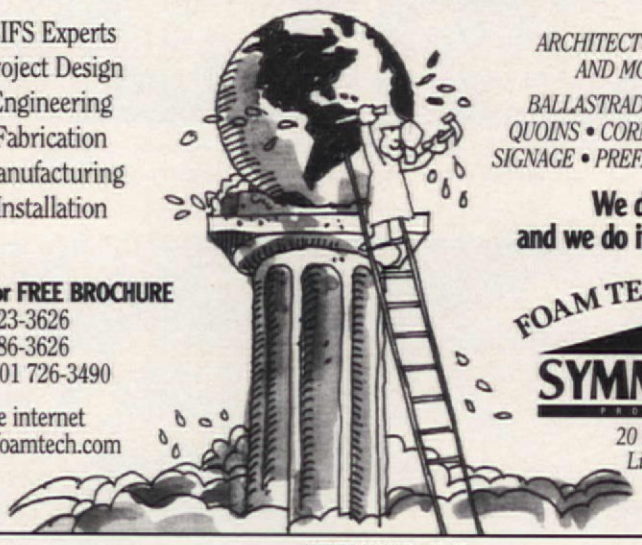

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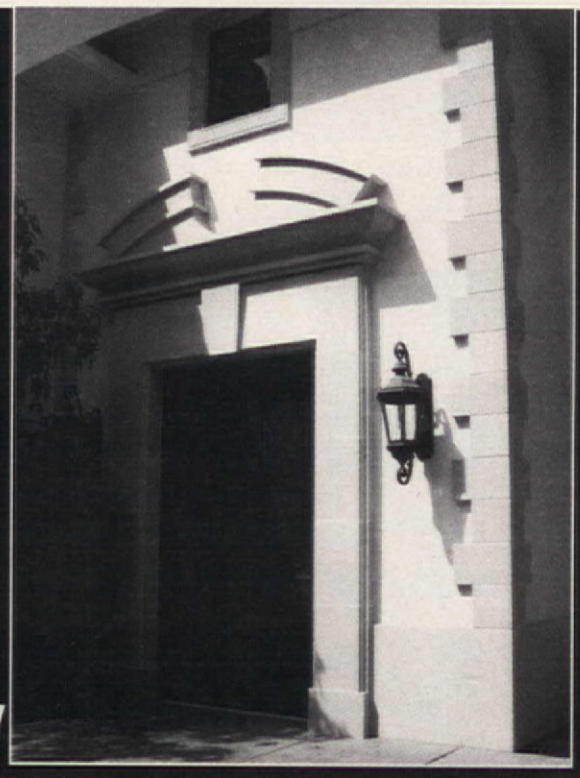

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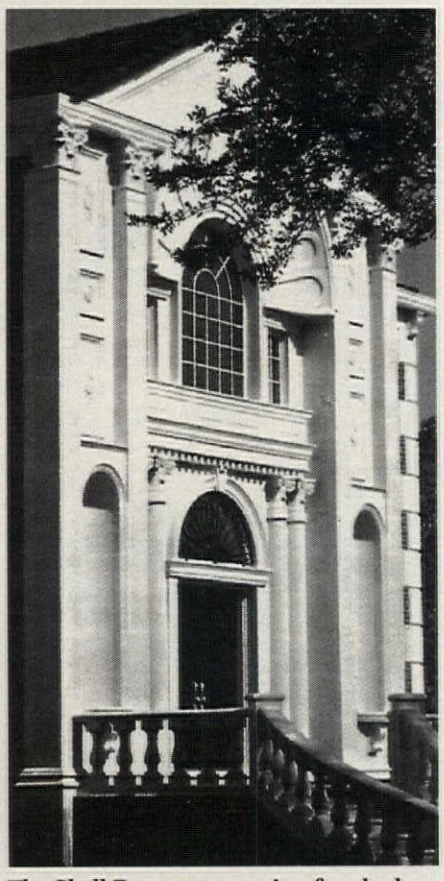
EXTERIOR MOLDED ORNAMENT PORTFOLIO

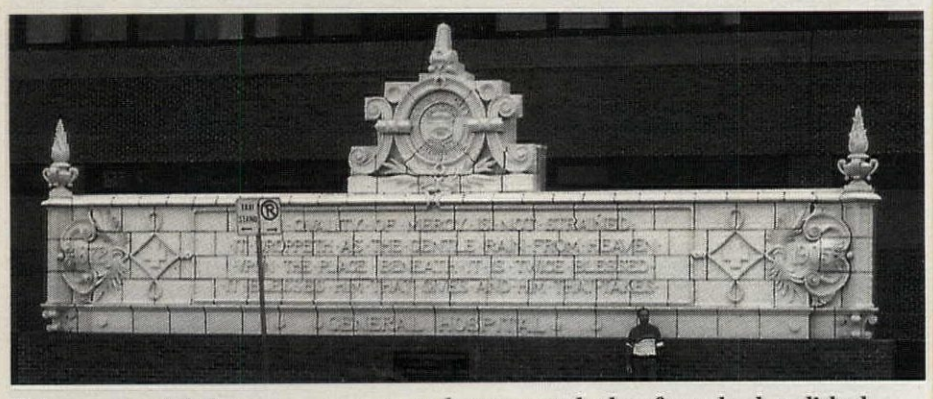
For more information on these companies, consult the SourceList on pp. 42-46.

CONCRETE DESIGNS, INC., used molding #M40 to create window headers for this residence in Lubbock, Tex. The company also supplies complementary products including columns, balustrades, and quoins. *Write in No. 5190*

Foam brackets from SYMMETRY/ FOAM TECHNOLOGY ornament this cornice. *Write in No. 4140*



The Shell Bayonne entry is a facade that includes door surround, fluted columns, two-story fluted pilasters, radiused niches, wall ornaments, and an ornate second-story projecting shell window surround, available as a complete unit from STONE LEGENDS. *Write in No. 8630*



This monumental element, a reconstructed entry portal taken from the demolished Kansas City General Hospital, was repaired, cleaned, and rebuilt by CREATIVE SCULPTURE & RESTORATION. *Write in No. 2030*

ARCHITECTURAL PRODUCTS BY OUTWATER carries a large selection of interior polyurethane ornaments, including columns and capitals, which can also be used in protected areas outdoors. *Write in No. 4939*

These detailed Gothic balconies were originally made of terra cotta; one is a GFRC replacement by TOWNE HOUSE RESTORATIONS. *Write in No. 545*

BALL CONSULTING supplies materials and technology for exterior molded ornament, including the wall quoins found on this residence. *Write in No. 7260*

ABATRON'S "MasterMold" created the lion replica being de-molded at left. In addition to the simple one-step application process, the molds are highly reusable. *Write in No. 1300*

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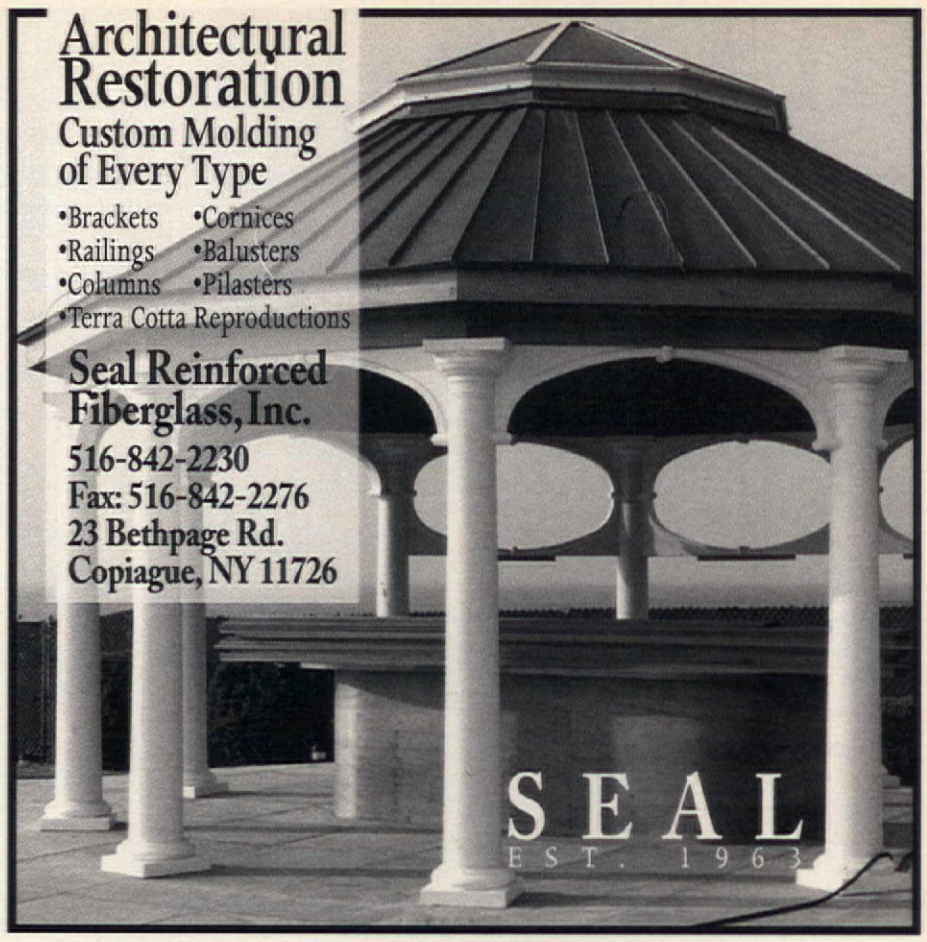

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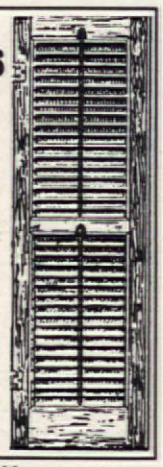

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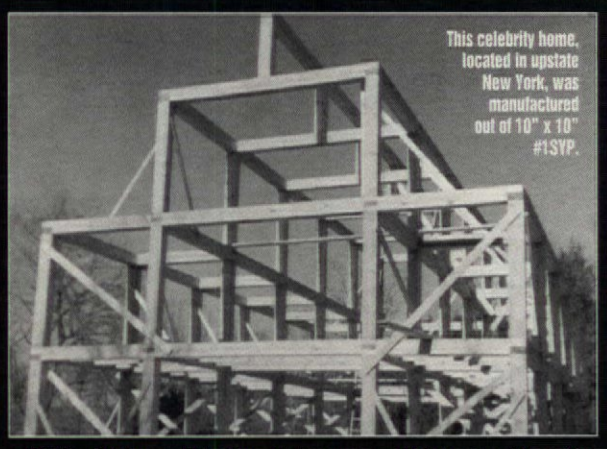

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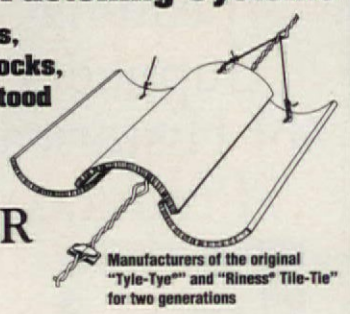

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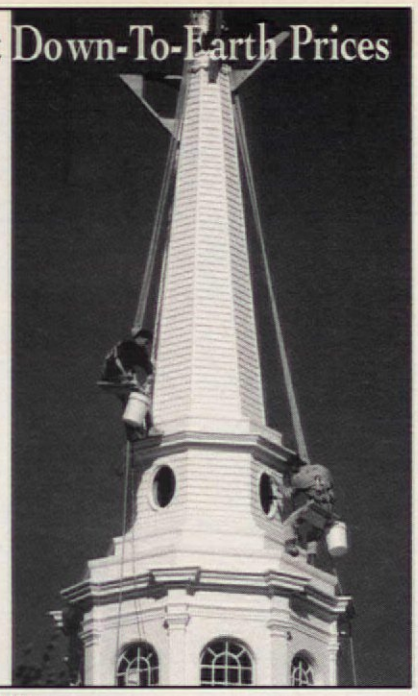

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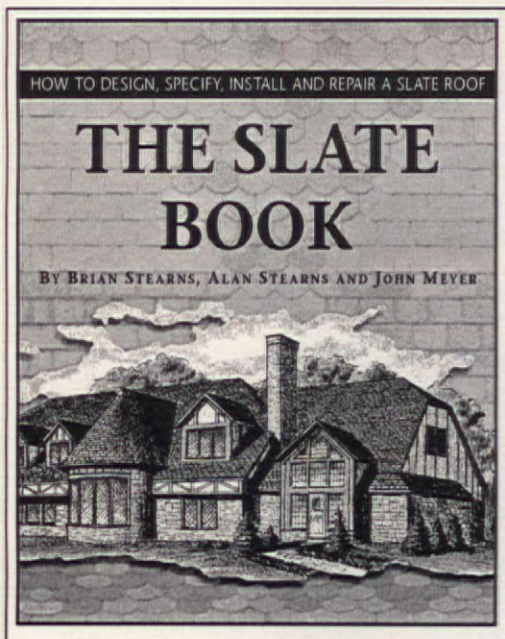

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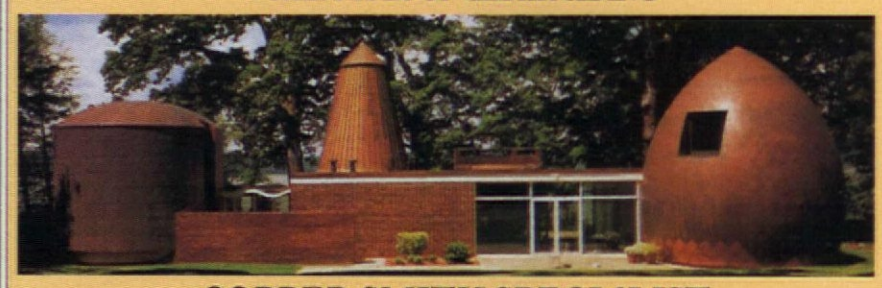

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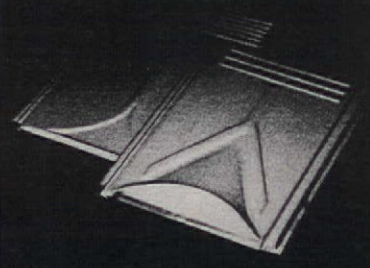

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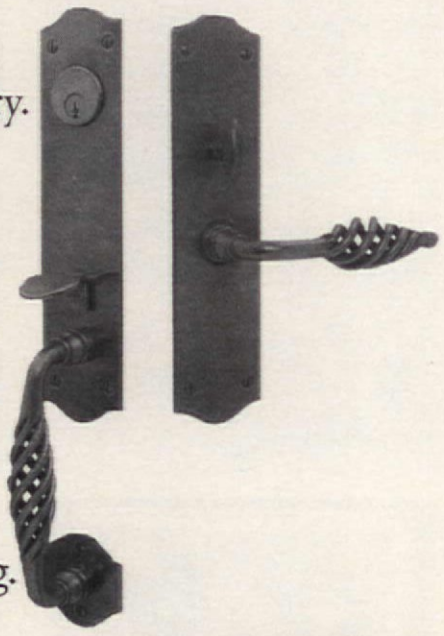

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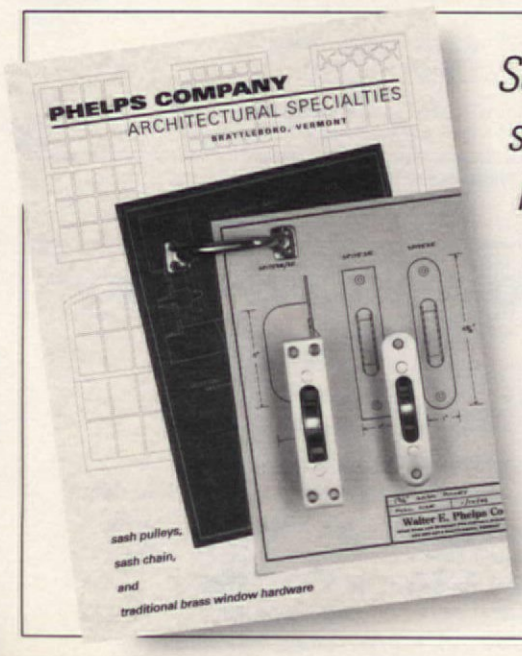

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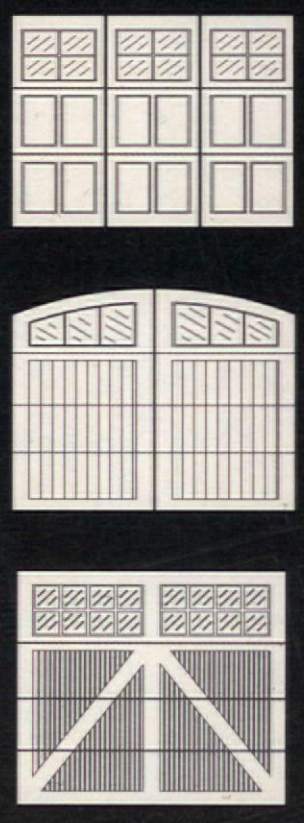

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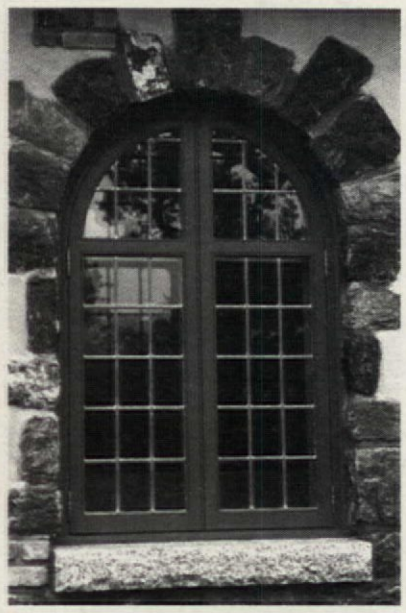

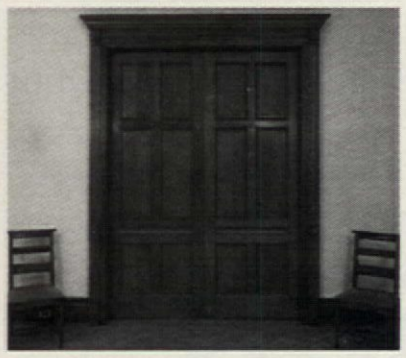

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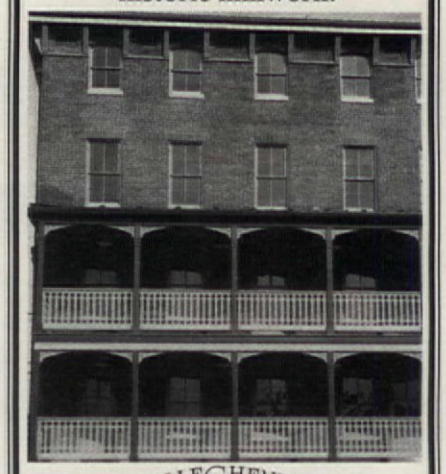

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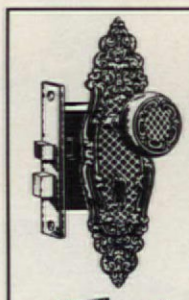

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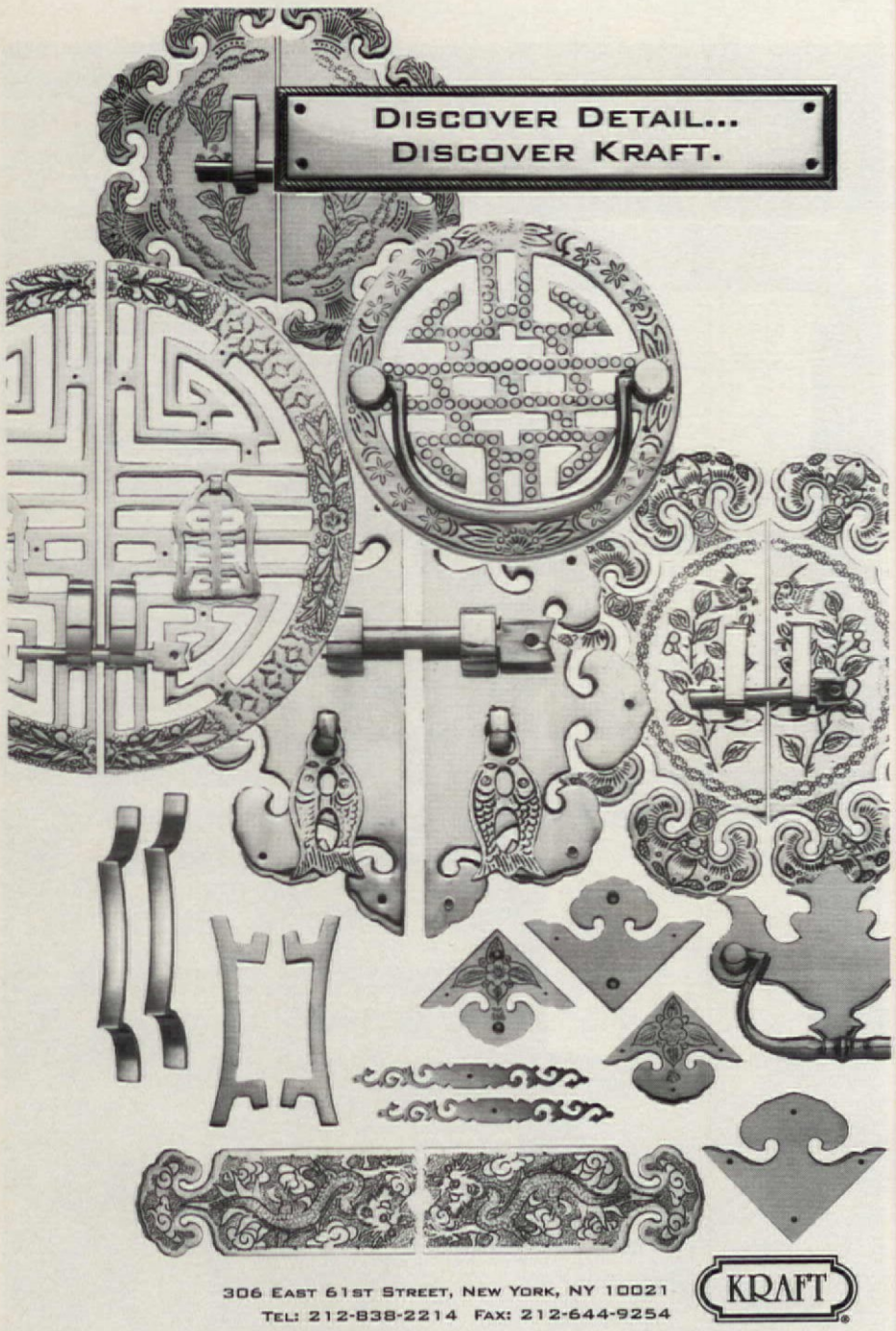

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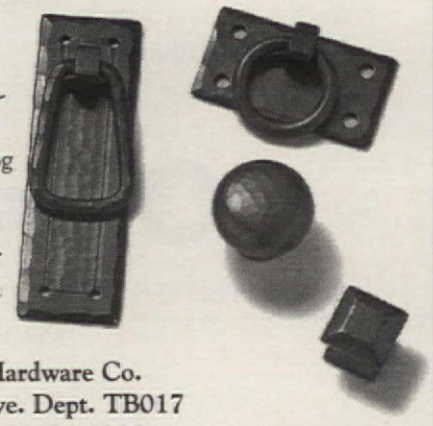

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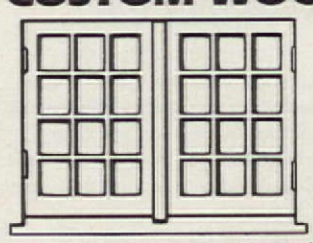

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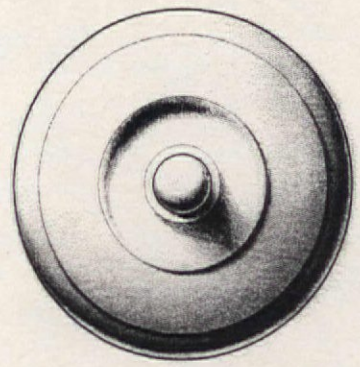

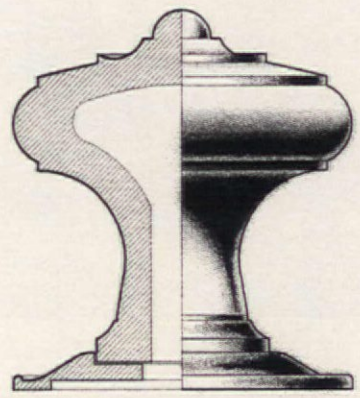

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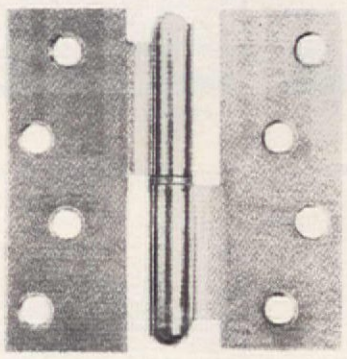

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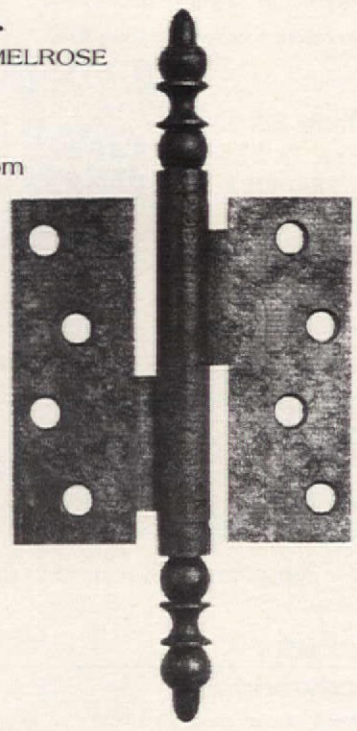

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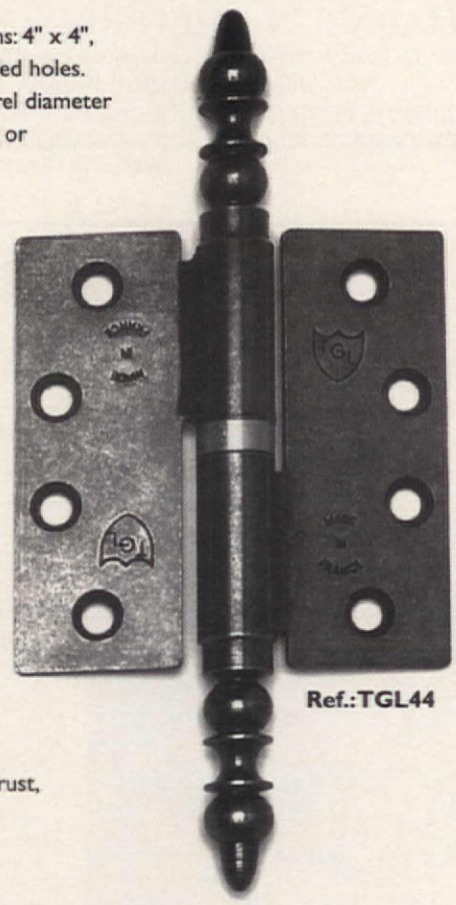

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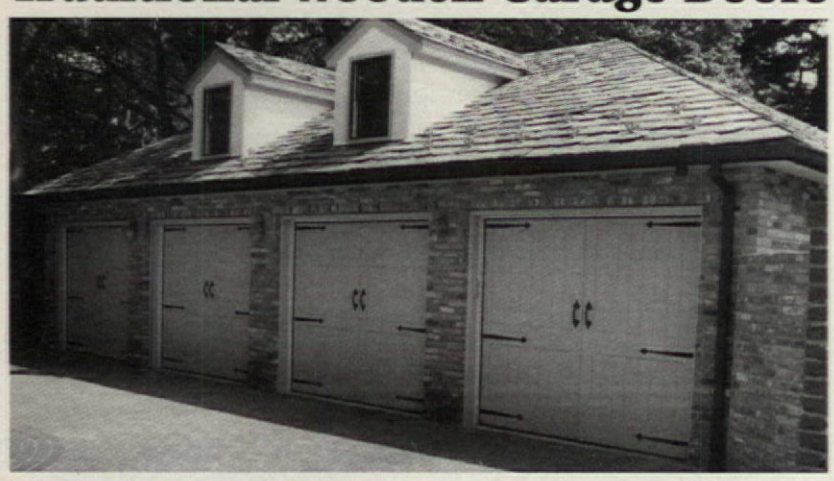

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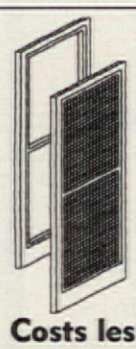

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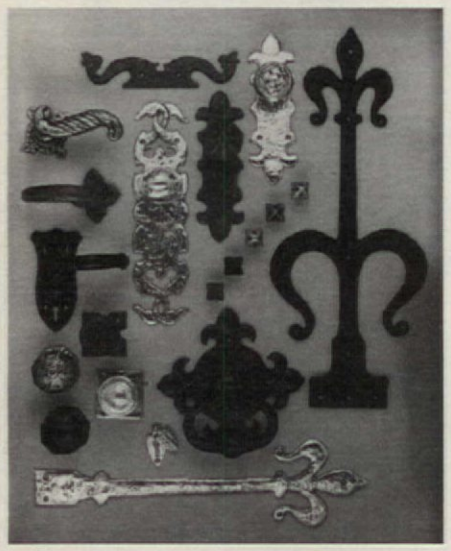

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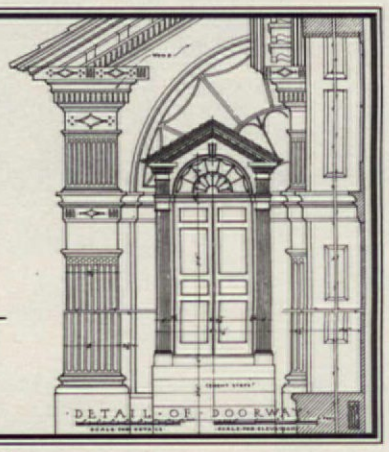

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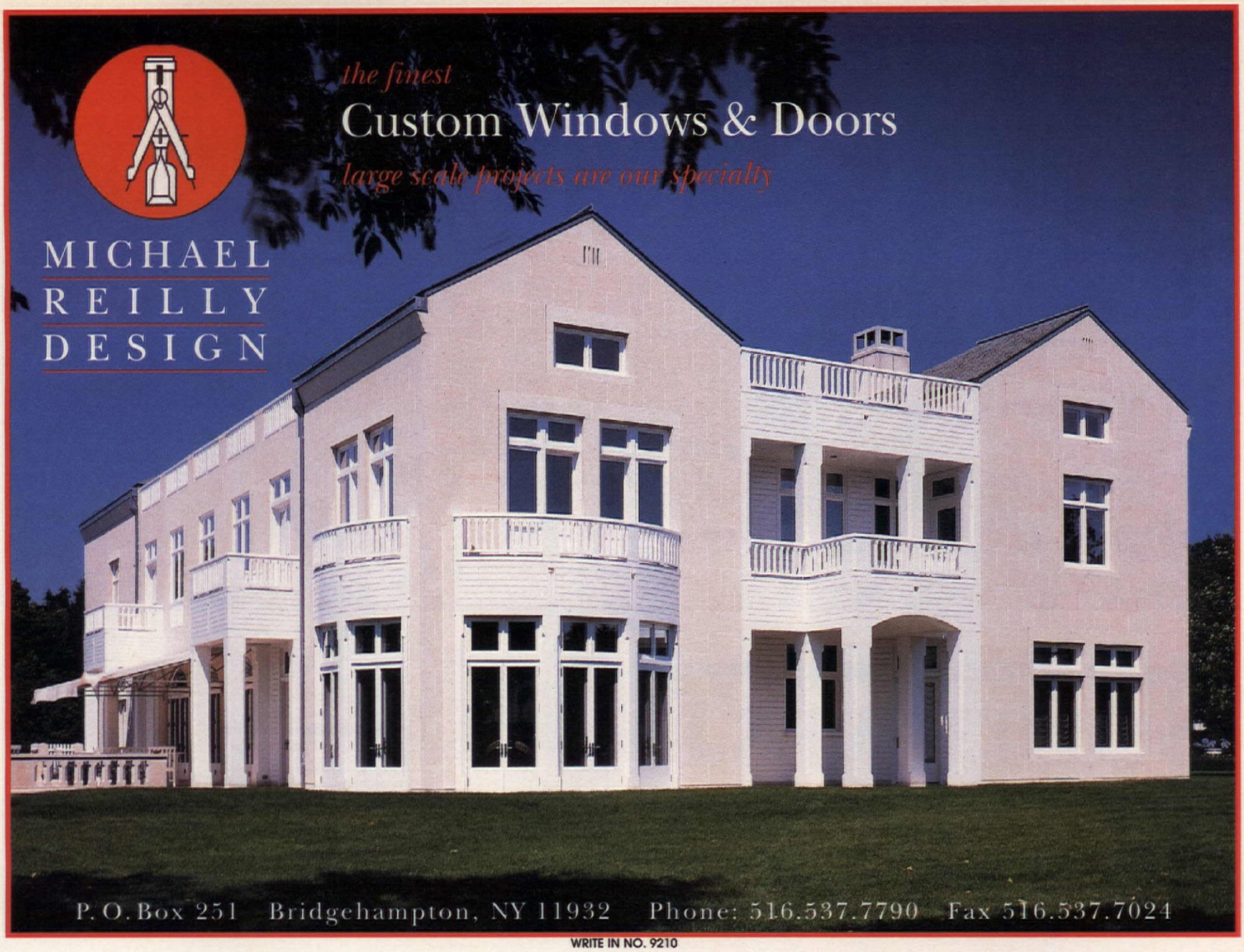

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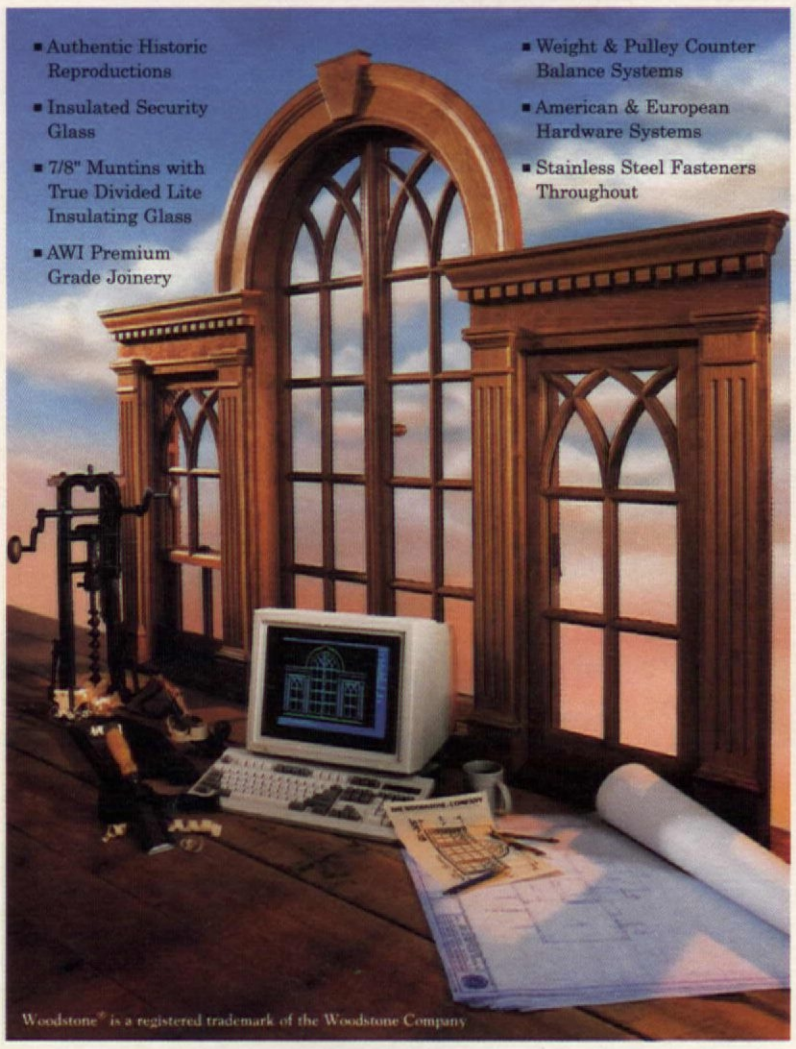

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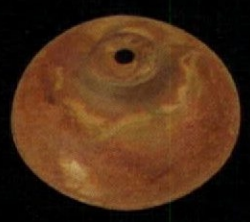
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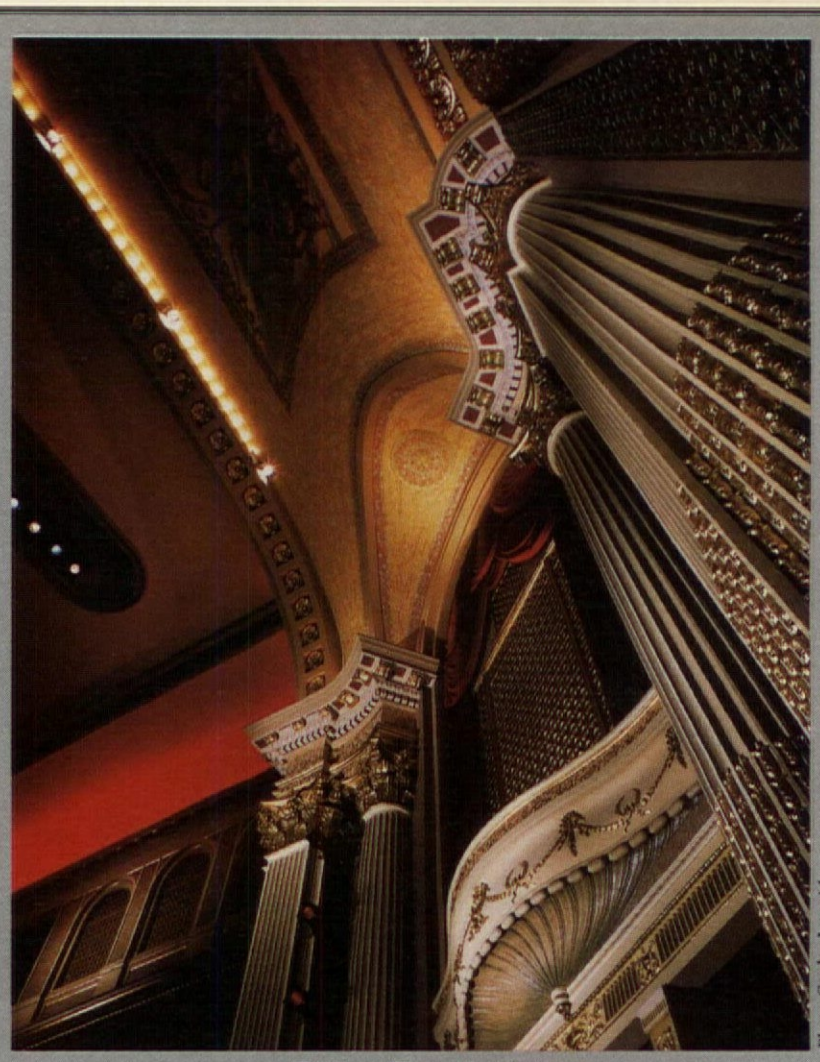
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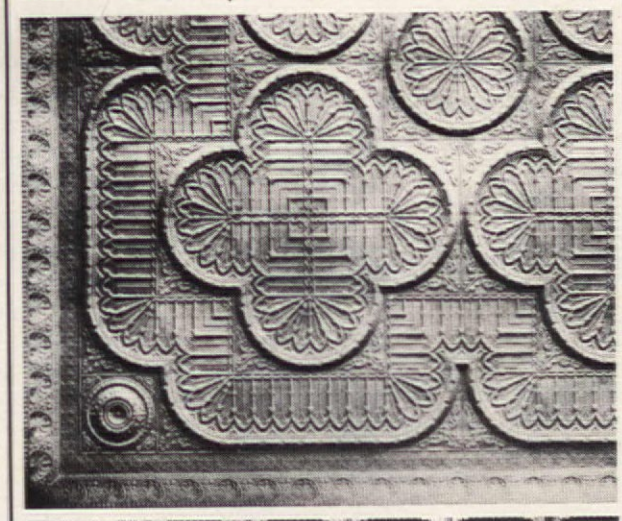

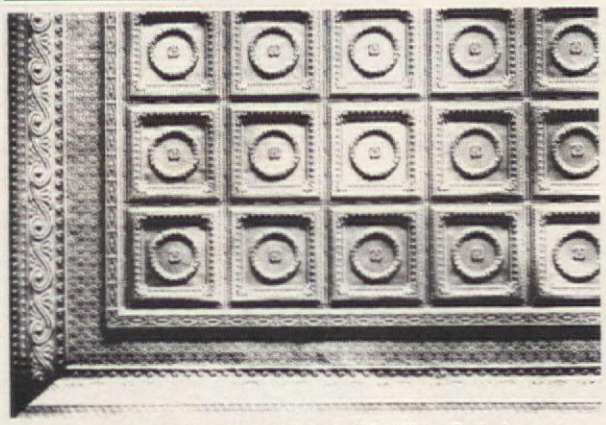

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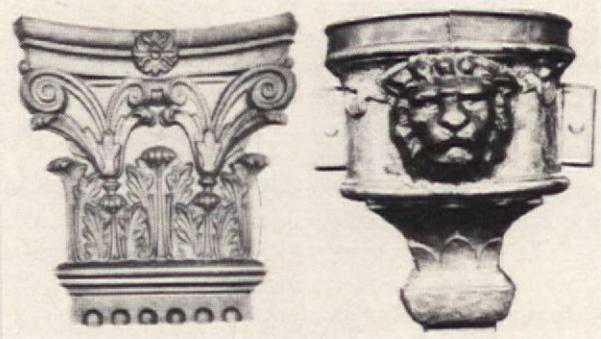

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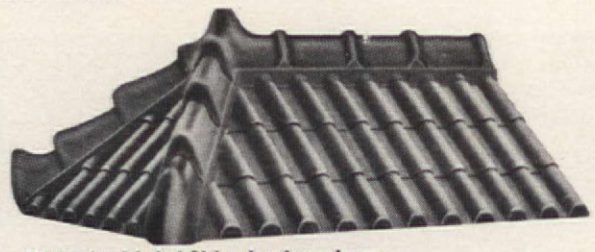

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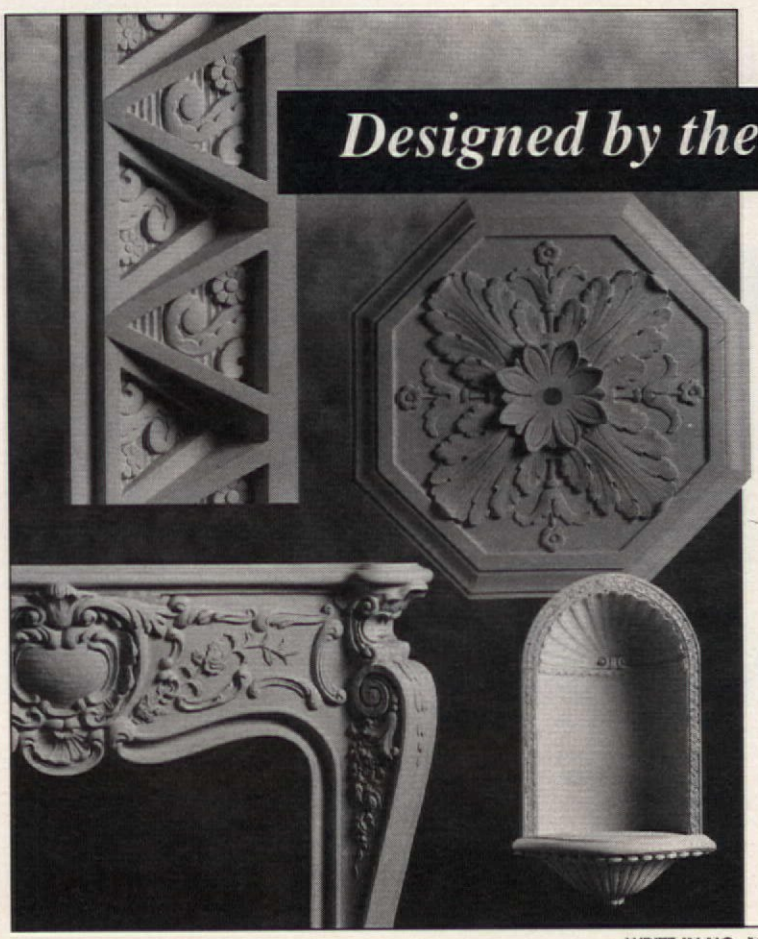

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WRITE IN NO. 1960

SourceList..... 68-72
Portfolio.... 66, 74-78

SCRAPING THE PERIOD FLOOR

Hand-scraping a floor may sound labor intensive, but it's the only way to restore a period wood floor while maintaining its integrity and charm.

When the Philadelphia Society for the Preservation of Landmarks scheduled the floor restoration of the 10-room 1765 Samuel Powel House, they brought in Wendy Emery and Mark Smith, two restoration artisans who acquired serious floor-refinishing skills on several local historic restorations. The job consisted of removing 30 years of varnish and dirt from 2,300 sq.ft. of longleaf pine.

In order to "clean" the floor thoroughly while maintaining its integrity, Emery and Smith *scraped*. Using a hand scraper — the Sandvik 450 with Series 451 carbide blades — they were able to remove "pencil shavings." Emery extols the virtues of scraping over sanding: "For starters, sanding creates lots of dust. Second, it scratches the surface, leaving the wood flat and uninteresting. What you end up with, actually, is a new floor."

Emery and Smith restored the floor with a two-step process. "The first scraping removed the varnish and dirt but left an ugly, ratty surface," report Emery. "The second scraping took care of the damaged wood by evening it out while leaving the natural cupping and age marks."

Scraping is very labor intensive. "We used 35 2-1/2-in. blades for 5 rooms over a period of one month," said Emery. "The scraper used on Powel House was two-handled so you can really throw your weight into it, although we couldn't work for more than a half day at a time,"she continued, "but we left the floors finally with a beautiful antique appearance."

Who's on the *SourceList*

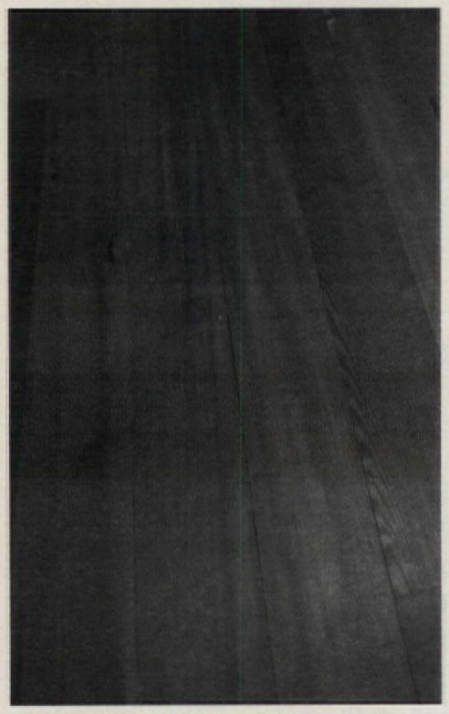
Our Editors contacted 92 wood-flooring companies, and from those companies that responded, we compiled the *SourceList* of 67 suppliers on pp. 68-72. Some of these companies trade exclusively in new wood; others offer only antique wood and salvaged from old houses, barns, or other structures facing demolition; still others recover timbers that were lost years ago in rivers and lakes. And then, of course, there are companies that offer both new and antique wood flooring.

Whatever the vintage of the wood, the *SourceList* includes companies that will supply wood flooring — wide board, strip, random width, parquet, wood mosaic, ornamental borders — and other related products. Whatever kind of wood floor you envision, this *SourceList* will have just the supplier for your project. ■

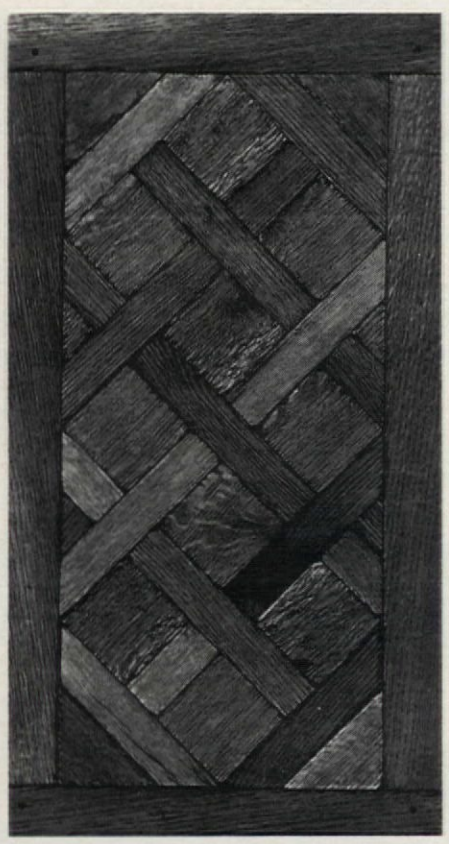
WOOD FLOORING PORTFOLIO

For more information on these companies, consult the SourceList on pp. 68-72.

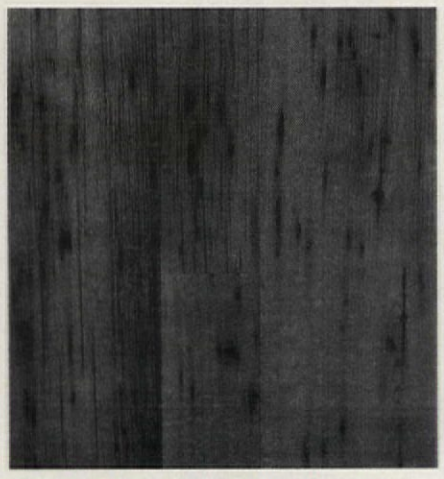
Wide-plank flooring from CARLISLE RESTORATION LUMBER, air- and kiln-dried to insure stability, is milled to each customer's specifications. *Write in No. 5580*



AMERICA HEART PINE's antique heart-pine flooring is reclaimed from pre-1900s commercial and residential structures. *Write in No. 4060*



Hand-crafted, custom flooring panels are a specialty of CORDTS FLOORING CO. *Write in No. 322*



ANTIQUE & SPECIALTY FLOORING CO. supplies several vintage wood species, including the antique chestnut shown here. *Write in No. 3390*

Antique hemlock is only one of the vintage wood species for flooring available from AGED WOODS. *Write in No. 1320*

Vintage flooring from CHESTNUT WOODWORKING & ANTIQUE FLOORING CO. provides a warmth and elegance which will enrich any interior. *Write in No. 412*

Antique wood species for SYLVAN BRANDT's flooring include oak, which is resawn to a thickness of 15/16 in. and comes in lengths from 4 to 16 ft. *Write in No. 3950*

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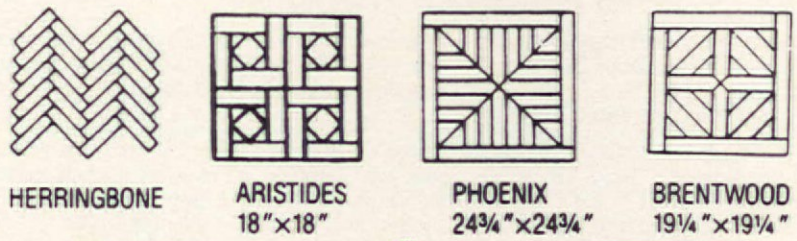

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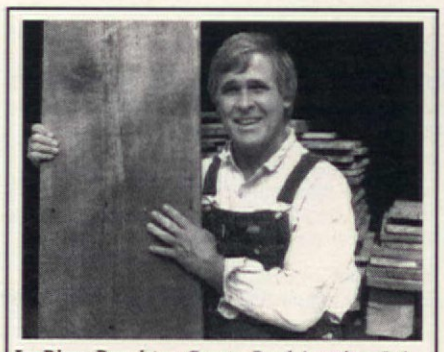

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WRITE IN NO. 3180

TRADITIONAL BUILDING'S WOOD FLOORING *SourceList*

CSI# 09550

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING									Wood Species
			Wide Board	Strip	Random Width	Parquet	Mosaic	Ornamental Borders	Antique Wood	New Wood	Other	
Aged Woods, Inc. 2331 East Market Street, Dept. TB York, PA 17402 800-233-9307; Fax: 717-840-1468	Rustic, recycled antique woods and beams for t-&-g plank flooring, timber framing, paneling, stair parts, moldings, and in dimensional form for cabinetry. Kiln-dried and milled. Wide plank, random-width, and antique flooring.	Free Write in No. 1320	✔	✔	✔				✔		Stair parts, molding	Oak, pine, heart pine, chestnut, maple, hemlock, poplar, hickory, ash
Airedale Woodworks P.O. Box 307, Dept. TB Murfreesboro, NC 27855 800-489-0639; Fax: 919-398-8429	Supplier of remilled flooring and boards salvaged from old tobacco barns. Extremely stable; average 6% moisture content. Staircases, molding, doors, ceilings, paneling, cypress Adirondack furniture and tobaccowood furniture.	Free	✔	✔	✔				✔		Reclaimed wood	Oak, pine, heart pine, cypress, gum, poplar
Albany Woodworks P.O. Box 729, Dept. TB Albany, LA 70711 504-567-1155; Fax: 504-567-5150	Antique heart-pine tongue-&-groove plank flooring up to 11 in. wide. American hardwood flooring; quartersawn, long lengths, natural unfinished or prefinished for naildown and gluedown. Nationwide service.	Free	✔		✔				✔	✔		Oak, pine, heart pine, black walnut, cherry
America Heart Pine, Inc. 4624 Billy Maher Road, Dept. TB Memphis, TN 38135 800-554-5765; Fax: 901-382-0577	Manufacturer of antique heart-pine, Douglas fir, and oak flooring; large selection of antique hand-hewn timbers and structural timbers.	Free Write in No. 4060							✔			Heart pine, cypress, Douglas fir
Antique & Specialty Flooring Co. 100 West Main St., Dept. TB Plantsville, CT 06479 888-728-3966; Fax: 860-276-0704	Manufactures kiln-dried antique flooring in recycled heart pine, antique oak, antique chestnut, antique hemlock, and antique Eastern pine. Also stocks hand-hewn beams.	Free Write in No. 3390	✔		✔				✔		Hand-hewn beams	Oak, heart pine, chestnut, hemlock, white pine
Antique Woods & Colonial Restorations 1273 Reading Ave., Dept. TB Boyertown, PA 19512 610-367-8193; Fax: 610-367-6911	Antique timber frames, log homes, churches, covered bridges, stone barns. Dismantles and re-erects frames and converts to any use. Custom frames built using antique materials. Documentation, design, and construction services.	Free Write in No. 101	✔		✔				✔			Oak, pine, heart pine, chestnut, cypress, hemlock
Authentic Wood Floors, Inc. P.O. Box 153, Dept. TB Glen Rock, PA 17327 800-765-3966; Fax: 717-428-0464	Lumber reclaimed from barns and warehouses and recycled into flooring, beams, paneling, molding, wainscoting, etc.	Free Write in No. 8000	✔		✔				✔			Oak, pine, heart pine, chestnut, cypress
Barber Lumber Sales P.O. Box 263, Dept. TB Alachua, FL 32616 904-462-3772; Fax: 904-462-7037	Longleaf heart-pine, cypress, and oak boards and timber; virgin-growth cypress heart; shingle, clapboard, and novelty siding. Timber up to 24 in.sq., lengths to 48 ft.; special-order dimensions and lengths.	Free	✔	✔	✔			✔	✔	✔		Heart pine, heart cypress
Boa-Franc / Mirage 1255 98th Street, Dept. TB St Georges, PQ CANADA G5Y 8J5 418-227-1181; Fax: 418-227-1188	Manufacturer of solid, 3/4-in., t-&-g, prefinished hardwood flooring in red oak, maple, white ash, yellow birch, beech, and cherry, at widths of 2-1/4, 2-1/2, and 3-1/4 in.; 14 color choices; semi-gloss and satin finishes available.	Free		✔								Oak, maple, birch, ash, cherry, beech
Brandt, Sylvan 651 East Main Street, Dept. TB Lititz, PA 17543 717-626-4520; Fax: 717-626-5867	18th- and 19th-century building materials salvaged from old houses and barns. Specialist in antique and resawn flooring. Webpage: www.sylvanbrandt.com	Free Write in No. 3950	✔		✔				✔			Oak, pine, heart pine, chestnut
Brandy Hollow Restorations Brandy Hollow Rd., P.O. Box 7, Dept. TB Durham, NY 12422 518-239-4746; Fax: Same as phone	Over 20 dismantled antique barns, carriage houses, and farmhouses. Offers structural restoration and frame altering for customized needs using antique building materials and traditional joinery. Delivery and setup anywhere.	Free Write in No. 3180	✔		✔				✔			
Bruce Hardwood Floors 16803 Dallas Pkwy., Dept. TB Dallas, TX 75248 800-722-4647; Fax: 214-887-2110	The world's largest manufacturer of hardwood floors. Types of flooring include wide board, strip, parquet, and custom-crafted wood tiles. Offers a complete line of unfinished and prefinished trim, solid and engineered oak, and maple wood species.	Free	✔	✔	✔	✔				✔	Trim and sundry products	Oak, pine, maple, Nyatoh, Merbau, hickory, basswood, Asian pine, Iroko, Kempas, beech, cherry
Cape Cod Air Grilles 11 Atlantic Ave., Dept. TB South Yarmouth, MA 02664 508-394-8700; Fax: Same as phone	Supplier of solid-wood grilles in all wood species; flush- and surface-mount grilles also available; custom grilles are a specialty.	Free Write in No. 693									Registers, grilles	All wood species
Carlisle Restoration Lumber 1676 Route 9, Dept. TB Stoddard, NH 03464 800-595-9663; Fax: 603-446-3540	Traditional flooring in widths from 4 to 20 in. and lengths from 8 to 16 ft., in old-growth Eastern white pine and heart pine, maple, hickory, cherry, walnut, and oak; hand-hewn beams; paneling. Recycled flooring also available.	Free Write in No. 5580	✔		✔				✔	✔		Oak, pine, heart pine, chestnut, maple, hickory, birch, walnut, ash, butternut
Chestnut Specialists, Inc. 400 Harwinton Ave., Dept. TB Plymouth, CT 06782 860-283-4209; Fax: Same as phone	Original planks and remilled flooring from antique salvaged lumber in chestnut, oak, and pine. Random-width, -length; planed t&g or square-edged, kiln-dried. Antique barn beams also available.	Free Write in No. 8780	✔	✔	✔				✔			Oak, pine, heart pine, chestnut
Chestnut Woodworking & Antique Flooring P.O. Box 204, Dept. TB West Cornwall, CT 06796 860-672-4300; Fax: 860-672-2441	Recycles antique woods. Original wideboard flooring and remilled t-&-g flooring in chestnut, oak, white pine, heart pine, and hemlock. Kiln-dried. Also, furniture-grade antique woods.	Free Write in No. 412	✔		✔				✔			Oak, pine, heart pine, chestnut, hemlock
Cochran's Lumber and Millwork P.O. Box 203, 33735 Snickersville Tpk., Dept. TB Bluemont, VA 20135 540-554-8274; Fax: 540-554-2153	Custom moldings, doors, mantels, flooring; custom millwork, built-ins, bars; hardwoods and antique woods.	Free Write in No. 9780	✔						✔	✔		Hardwoods
Cordts Flooring Co. 840 Lyle Ct., Dept. TB Peekskill, NY 10566 914-737-8201; Fax: Same as phone	Reproduction antique flooring panels with a hand-crafted contoured surface. Available unfinished or with an antiqued hand-rubbed finish.	Free Write in No. 322	✔			✔				✔	Antiqued reproduction panels & planks	Oak, maple, walnut
Country Road Associates, Ltd. Franklin Ave., P.O. Box 885, Dept. TB Millbrook, NY 12545 914-677-6041; Fax: 914-677-6532	Can provide large quantities, shipped anywhere; 19th- and 18th-century reclaimed lumber from old barns and homes; wood is de-nailed and trimmed on ends, can be planed and tongue-and-grooved or straight-lined ripped.	Free Write in No. 7480	✔		✔				✔			Oak, pine, heart pine, chestnut, maple, hemlock, cherry, ash, spruce
Craftsman Lumber Co. P.O. Box 222, Dept. TB Groton, MA 01450 978-448-5621; Fax: 978-448-2754	Custom Eastern white pine flooring and paneling; to 24 in. wide. Northern hard pine, oak, ash, maple, and cherry available; to 12 in. wide. Custom beams also available.	Free Write in No. 4320	✔		✔					✔		Oak, pine, maple, cherry, ash, walnut
Darien Millworks 920 Westersham Place, SW, Dept. TB Marietta, GA 30064 770-792-1971; Fax: 770-792-1972	Graded antique heart-pine flooring, millwork, and stair parts. Heart-pine timbers for exposed beams, structural and decorative. Certified yellow-pine flooring.	Free Write in No. 565	✔	✔	✔				✔	✔		Heart pine
Duluth Timber Co. P.O. Box 16717, Dept. TB Duluth, MN 55816 218-727-2145; Fax: 218-727-0393	Resawn planks and beams, flooring, paneling, and custom millwork from recycled timbers; 'as is' timbers; national shipping.	Free Write in No. 112	✔	✔	✔				✔		Plank	Heart pine, Douglas fir
Erbe Company 560 Barry St., Dept. TB Bronx, NY 10474 212-249-6400; Fax: 718-991-4957	High-end wood floors in antique or new woods.	Free	✔	✔	✔	✔		✔	✔	✔	Wide laminated planks and metal inlays	Oak, pine, heart pine, chestnut, maple, teak, ebony, walnut, East Indian rosewood

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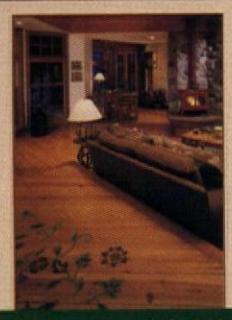

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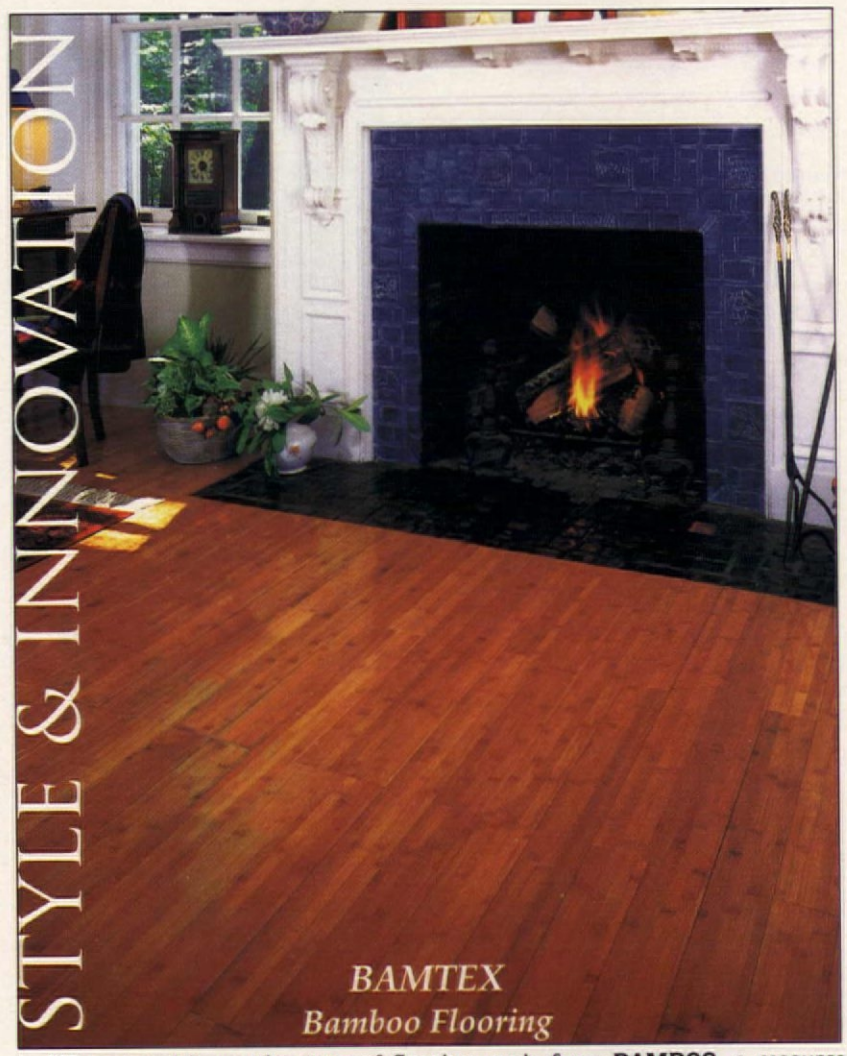

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WRITE IN NO. 55

TRADITIONAL BUILDING'S WOOD FLOORING *SourceList*

CSI# 09550

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING									Wood Species
			Wide Board	Strip	Random Width	Parquet	Mosaic	Ornamental Borders	Antique Wood	New Wood	Other	
Goodwin Heart Pine Co. 106 SW 109th Pl., Dept. TB Micanopy, FL 32667 800-336-3118; Fax: 352-466-0608	Antique heart-pine and heart-cypress flooring, stair parts, moldings, and furniture. 'River Recovered' is the premium brand; 'Legacy' includes nail holes, a more rustic look.	Free Write in No. 1330	✔	✔	✔				✔		Flooring complements, stair parts, architectural millwork	Heart pine, heart cypress, cherry
Grate Vents 9502 Linder Ave., Dept. TB Crystal Lake, IL 60014 815-459-4306; Fax: No Fax	Manufacturer of wooden floor grates, from 2 in. x 10 in. to 20 in. x 32 in. Various wood species available.	Free Write in No. 5040									Floor grates	Oak, maple, cherry, walnut
Grill Works, Inc. P.O. Box 175, Dept. TB Marshall, MN 56258 800-347-4745; Fax: 507-532-3526	Manufacturer of wood grilles that accommodate a standard metal register (to control air flow) just below the wooden grille. Red oak drop-in models fit standard duct openings from 2-1/4 in. x 12 in. through 6 in. x 16 in.	Free Write in No. 7920									Grilles	Red oak
Hardwoods Millworking 300 Whites Creek Road, Dept. TB Confluence, PA 15424 800-782-2301; Fax: 814-395-5474	Custom hardwood wall and ceiling planks and custom hardwood flooring.	Free Write in No. 724	✔		✔					✔	Wall and ceiling planks	Hardwoods
Harvey Millwork, Inc. P.O. Box 249, Dept. TB Bozman, MD 21612 410-822-7689; Fax: 410-745-9926	Specialist in longleaf heart pine, three species available, native and imported. Custom flooring, doors, molding, paneling, vents/registers, mantels, trim, and stair parts; shipping worldwide.	Free Write in No. 3460	✔	✔	✔	✔		✔	✔	✔		Oak, pine, heart pine, chestnut, maple, ash, walnut, bamboo, domestic & Brazilian cherry, teak
Heartwood Lumber Co. 5801 Rhodes Ave., Dept. TB New Orleans, LA 70131 504-899-3902; Fax: 504-899-6243	Importer/distributor of selected foreign and domestic woods: flooring, moldings, dimensional lumber, and custom-milled products.	Free		✔	✔				✔	✔	Molding, stair treads, risers, nosings	Heart pine, South American chestnut, Santos mahogany, Australian cypress, Brazilian cherry, Brazilian walnut
Henderson Corp. P.O. Box 6459, Dept. TB Boise, ID 83707 800-888-9111; Fax: 208-368-0783	Manufacturer/supplier of antique wood flooring, barnsiding, hewn timbers, dimensional lumber, log cabins, timber frames, imported European timber. Large inventory.	Free	✔		✔				✔	✔	Custom millwork	Oak, white pine, larch, chestnut, Douglas fir
Heritage Door, LLC 7667 Market Street, Dept. TB Canton, MI 48187 734-414-7100; Fax: 734-414-7103	Manufactures Honduras mahogany millwork, including doors, molding, wainscoting, hardwood flooring, and customer-designed bars and furniture.	Free Write in No. 1350	✔		✔					✔	Doors, molding, wainscoting, furniture	Honduras mahogany, Rosita, Marapolan, Combillo, Granadillo
Historic Floors of Oshkosh 911 East Main St., Dept. TB Winneconne, WI 54986 920-582-9977; Fax: 920-582-9971	Manufacturer of parquetry, decorative floor borders; geometric and laser-cut medallions; stock and custom designs; 12 standard parquets; new vine-motif borders; quick delivery.	Free Write in No. 9140				✔		✔		✔	Medallions	Hardwoods
Hull Forest Products 101 Hampton Road, Dept. TB Pomfret Center, CT 06259 860-974-2083; Fax: 860-974-2963	Kiln-dried Eastern white pine flooring and paneling; band-sawn oak timbers up to 26-ft. in length.	Free	✔	✔	✔						Red oak strips 5-6 in.	Oak, pine, hickory
Junckers Hardwood, Inc. 4920 Landon Drive, Dept. TB Anaheim, CA 92807 800-878-9663; Fax: 714-777-6436	Manufacturer of solid prefinished hardwood flooring in 7/8-, 1/2-, and 3/4-in. thicknesses. Products are designed to be clipped or nailed down. Excellent for radiant-heat floors and over concrete.	Free Write in No. 751	✔	✔	✔				✔	✔		Oak, Ash, Marbau, silver beech
Lebanon Oak Flooring Co. P.O. Box 669, Dept. TB Lebanon, KY 40033 502-692-2128; Fax: Same as phone	Manufacturer of 5/16-in. flooring strips and planks.	Free		✔	✔	✔						Oak
Leyshon Antique Building Materials Badgers Cottage, Compton Dundon, Dept. TB Somerton, UK TA1 6P3 01458272194; Fax: Same as phone	Source for old oak beams and floorboards; old European floor tiles, fireplaces, brick.	Free Write in No. 572							✔		Salvaged beams	Oak
Lignomat USA, Ltd. 14345 NE Morris Ct., P.O. Box 30145 Portland, OR 97230 800-227-2105; Fax: 503-256-3844	Instruments to measure moisture in wood and soft and hard building materials, such as drywall or concrete. Also supply thermo-hygrometers, dataloggers, and other automatic recording devices for monitoring moisture.	Free Write in No. 1120									Moisture meters	
Longleaf Lumber 70-80 Webster Ave., Dept. TB Somerville, MA 02143 617-625-3659; Fax: 617-625-3615	Antique heart-pine flooring and custom milling; wide-plank and random-width boards. Also, barn boards, chestnut and white pine.	Free Write in No. 272	✔		✔				✔		Barn boards	Heart pine, chestnut, white pine
Longwood Restoration 330 Midland Place #3, Dept. TB Lexington, KY 40505 800-225-7857; Fax: 606-299-8205	Wide-plank flooring: original and remilled, all species. Two- and four-sided hand-hewn beams, furniture and cabinet stock, character boards, wainscoting, and much more. Any wood species specified.	Free Write in No. 564	✔		✔							Oak, pine, heart pine, chestnut
Maple Flooring Manufacturers Assn. 60 Revere Dr., Suite 500, Dept. TB Northbrook, IL 60062 847-480-9138; Fax: 847-480-9282	Trade organization offers technical and general information on maple flooring with membership that includes manufacturing mills, flooring contractors, distributors, and providers of installation-related products and services.	Free		✔							Finishes, game-line, sanders, fasteners, vapor-proofing	Maple
Miller & Co. P.O. Box 779, Dept. TB Selma, AL 36702 334-874-8271; Fax: 334-875-9109	Manufacturer of Cahaba-brand red and white oak flooring in 3/4 x 2-1/4 in. and 3/4 x 1-1/2 in.	Free		✔								Oak, ash
Mintec Corp. 100 E. Pennsylvania Ave., Dept. TB Baltimore, MD 21286 410-296-6688; Fax: 410-296-6693	'Bamtex' bamboo flooring is as hard as hard maple, environmentally friendly, durable, and highlighted with interesting natural patterns.	Free Write in No. 55								✔		Bamboo
National Hardwood Flooring & Molding 14959 Delano St., Dept. TB Van Nuys, CA 91411 800-988-9663; Fax: 818-988-4955	Wholesale hardwood flooring & moulding, columns, staircases, mantels, custom laser flooring, custom milling. Over 4.5 million ft. of material stocked.	Free Write in No. 4210	✔	✔	✔	✔	✔	✔	✔	✔		Oak, pine, heart pine, chestnut, maple, walnut, cherry, Brazilian hardwood
Normandy Imports, Ltd. 1102 Falls Road, Dept. TB Rock Hill, SC 29730 803-328-9232; Fax: Same as phone	Supplier of antique French building materials, including 300-year-old oak beams, timbers, trusses, 19th-c. oak parquet flooring, complete antique structures, 17th- to 19th-c. doors, antique and current terra-cotta flooring.	Free Write in No. 568				✔			✔			Oak
North Fields Restorations Rte. 1, Box 575, Dept. TB Hampton Falls, NH 03844 603-926-5383; Fax: Same as phone	Wide-plank flooring in pine, oak, and chestnut; original surface condition; also, beams, siding. Wholesale distribution center. Delivery and shipping nationwide. Ten-acre architectural center.	Free Write in No. 3260	✔		✔				✔		Staircase parts, beams	Oak, pine, heart pine, chestnut

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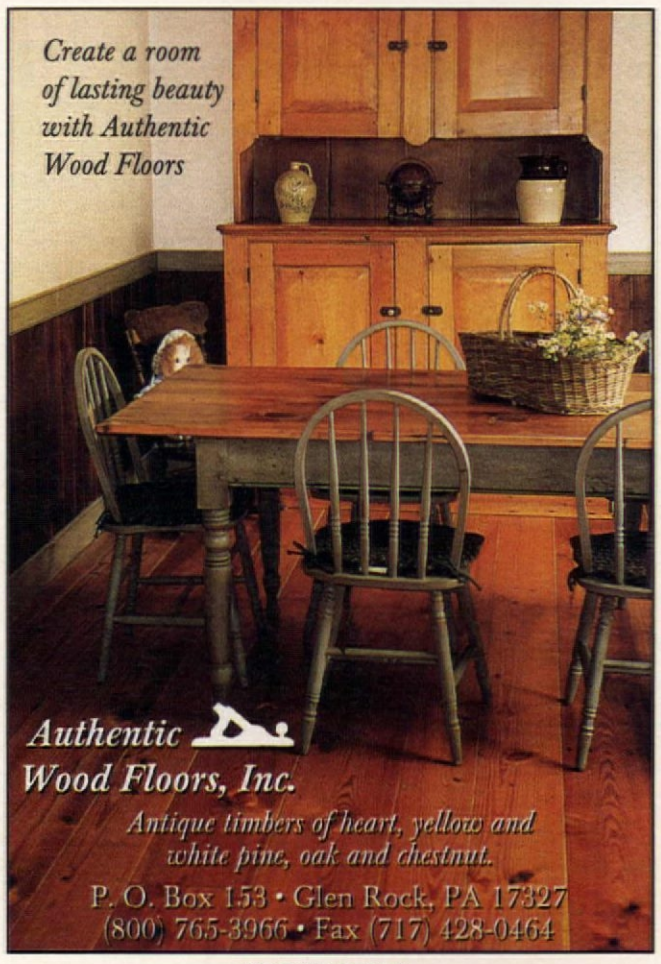

WRITE IN NO. 8000

TRADITIONAL BUILDING'S WOOD FLOORING *SourceList*

CSI# 09550

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING									Wood Species
			Wide Board	Strip	Random Width	Parquet	Mosaic	Ornamental Borders	Antique Wood	New Wood	Other	
Pacific Post & Beam **P.O. Box 13708, Dept. TB** **San Luis Obispo, CA 93406** **805-543-7565; Fax: 805-543-1287**	Designs, engineers, and constructs custom timber-frame buildings and trusses in California and trusses nationwide for commercial and residential use since 1983, using recycled and new timbers.	Free Write in No. 516	✔		✔				✔	✔	Timber frames	
Patina Woods Co. **3563 New Franklin Road, Dept. TB** **Chambersburg, PA 17201** **717-264-8009; Fax: No Fax**	Antique flooring, wall paneling, and beams from old barns and outbuildings. Also, flooring made from old beams.	Free Write in No. 569	✔	✔	✔				✔	✔		Oak, pine
Pennington Hardwoods **1514 Cliftwood Drive, Dept. TB** **Clarksville, IN 47129** **812-949-7004; Fax: 812-949-7032**	Specializing in Pennington Brand precision-milled and pre-sanded plank flooring, and wholesale distribution of Kentucky Wood Floor products. Custom or standard flooring, molding, and millwork, all shipped mill-direct to jobsites nationwide.	Free Write in No. 736	✔	✔	✔	✔	✔	✔		✔	Architectural millwork	Oak, pine, maple, ash, cherry, poplar, walnut, hickory, exotics
Pioneer Millworks **1755 Pioneer Rd., Dept. TB** **Shortsville, NY 14548** **716-289-3090; Fax: 716-289-3221**	Custom sawing and planing of reclaimed timbers in oak, Douglas fir, and heart pine for use with traditional joinery; hand-hewing, antique floors, ceilings, trim, and moldings.	Free Write in No. 6370	✔		✔				✔		Ceilings, trim, molding	Oak, heart pine, Douglas fir
Plaza Hardwood, Inc. **5 Enebro Ct., Dept. TB** **Santa Fe, NM 87505** **800-662-6306; Fax: 505-466-0456**	FSC-certified hardwood flooring and 18th-century reclaimed watersawn pine wide-plank flooring.	Free Write in No. 723	✔	✔	✔				✔	✔		Oak, pine, chestnut, maple, ash, birch, cherry, hickory
Plyboo America, Inc. **745 Chestnut Ridge Road, Dept. TB** **Kirkville, NY 13082** **315-687-3240; Fax: 315-687-5177**	U.S. importer of bamboo flooring from the Dutch firm Plyboo.	Free		✔								Bamboo
Red Hills Lumber **709 Campbell St., Dept. TB** **Thomasville, GA 31792** **912-227-3556; Fax: 912-227-3557**	Lumber company specializing in longleaf new heart-pine interior products: flooring, paneling, molding, and custom-design orders.	Free Write in No. 756	✔		✔					✔		Pine, heart pine
Red Suspenders Timber Frames **Rt. 7, Box 8383, Dept. TB** **Nacogdoches, TX 75961** **409-564-9465; Fax: 409-564-6001**	Designers and timber framers specializing in finely crafted timber-framed public, commercial, and residential projects throughout the U.S.	Free Write in No. 1025	✔		✔					✔	Timber frames	
Ridgefield Industries Co. **8420 West Railroad Street, Dept. TB** **Crystal Lake, IL 60012** **800-569-0316; Fax: 815-356-9492**	Manufacturer of a wide variety of wood wall and floor registers; floor registers available in self-rimming and flush-mount styles. All species of wood available; also, custom sizes.	Free Write in No. 708									Registers	All species
Riverwood Heart Pine Co. **2953 Westfield Road, Dept. TB** **Gulf Breeze, FL 32561** **850-932-5296; Fax: 850-932-0812**	Using heart pine and cypress reclaimed from Southern river bottoms, the company offers kiln-dried, custom molded flooring, paneling, trim, and furniture.	Free Write in No. 539	✔		✔				✔		Paneling, furniture, trim	Heart pine, old-growth cypress
Safari Thatch & Bamboo **2036-C N. Dixie Highway, Dept. TB** **Fort Lauderdale, FL 33305** **954-564-0059; Fax: 954-564-7431**	All tropical- and jungle-theming materials, including thatch bamboo, rustic bamboo and eucalyptus fencing, exotic timber, interior and exterior foliage. Also, ready-to-assemble thatch and bamboo kiosks, pavilions, trellises, fences, and more.	Free Write in No. 6591	✔	✔							Kiosks, pavilions, trellises, fences	Bamboo
Sampson & Son **Rte. 90, P.O. Box 1010, Dept. TB** **Warren, ME 04864** **800-769-6196; Fax: 207-273-4006**	FSC-certified, well managed forest strip and plank solid hardwood flooring. Also: stair parts, moldings, millwork, doors, cabinetwork.	Free Write in No. 759	✔	✔	✔					✔		Oak, pine, maple, ash, birch, red birch, cherry, mahogany
Satin Finish Hardwood Flooring **15 Fenmar Drive, Dept. TB** **North York, ON CANADA M9L 1L4** **888-79-SATIN; Fax: 416-747-5670**	Canada's largest group of wood-flooring manufacturers offers a complete range of unfinished/prefinished northern hardwoods. Also, complete line of accessories: mouldings, vents, nailers, cleats, stains, moisture meters. Four plants and four distribution centers in Canada.	Free	✔	✔		✔	✔			✔	Truck flooring	Oak, maple, ash, beech
Sheoga Hardwood Flooring & Paneling **P.O. Box 510, Dept. TB** **Burton, OH 44021** **440-834-1710; Fax: 440-834-9310**	Random-width, tongue-and-groove plank flooring in eight species; end-matched, pre-sanded woods for paneling, flooring, and ceilings; herringbone flooring; custom-made wood vents.	Free Write in No. 1660	✔		✔					✔	Herringbone flooring; vents	Pine, maple, ash, cherry, poplar, walnut, red oak, white oak
Shutter Depot **Rt. 2, Box 157, Dept. TB** **Greenville, GA 30222** **706-672-1214; Fax: 706-672-1122**	Interior and exterior custom and stock shutters; 2-1/2 in. movable louver; raised-panel and fixed louver; finished or unfinished. Also, shutter hardware.	Free Write in No. 6830	✔		✔					✔	Shutters	Pine, cedar, poplar
South County Post & Beam **521 Liberty Lane, Dept. TB** **West Kingston, RI 02892** **401-783-4415; Fax: 401-783-4494**	Full-service timber-frame company and wide-pine-flooring supplier. More than 20 years' experience with timber framing. Nationwide shipping of frame and stress-skin-panel enclosure systems. Full in-house design service.	Free Write in No. 134	✔		✔							Pine
Superior Waterlogged Lumber Co. **2200 E. Lake Shore Dr., Dept. TB** **Ashland, WI 54806** **715-685-9663; Fax: 715-685-9620**	Old-growth timbers harvested from the Great Lakes region during the 1800s, which are retrieved from the water, cut, and dried; for a variety of uses.	Free	✔	✔	✔				✔			Oak, pine, chestnut, maple, cypress, flame red birch, hemlock
The Woods Company **610-B No. Fifth Ave., Dept. TB** **Chambersburg, PA 17201** **717-263-6524; Fax: 717-263-9346**	Wide-plank flooring from new woods and remilled antique woods such as heart pine, oak, chestnut, and white pine; brush-textured flooring; stair parts; antique beams; floor decking; exposed-beam ceiling and joist systems.	Free Write in No. 5600	✔	✔	✔				✔	✔		Oak, pine, heart pine, chestnut, maple, hemlock, poplar, white pine, yellow pine
Timberknee, Ltd. **RR 1, Box 118, Dept. TB** **South Royalton, VT 05068** **800-720-9823; Fax: 802-763-5254**	Traditional random-width plank flooring available in a variety of hardwoods and white pine; custom millwork trim packs; special orders; custom designer/builder on staff.	Free	✔		✔					✔		Oak, pine, heart pine, chestnut, maple, ash, birch, cherry, walnut
Universal Flooring **14800 Quorum Dr., #110, Dept. TB** **Dallas, TX 75240** **972-387-0867; Fax: 972-387-7873**	Manufacturer of a variety of prefinished and unfinished natural-hardwood flooring species, featuring solid engineered strips and planks. Also, complete line of accessories.	Free	✔	✔		✔						Oak, maple, ash, beech, birch, cherry, Hevea, Kempas, Merba, mahogany, red oak
Vermont Hardwoods **25 Town Farm Road, Dept. TB** **Chester, VT 05143** **802-875-2550; Fax: 802-875-2101**	Unfinished hardwood flooring made to order. Baseboard, casing, solid paneling, and other trim items also available.	Free Write in No. 716	✔	✔	✔					✔		Oak, maple, ash, cherry, walnut
Vintage Lumber Co. **1 Council Dr., P.O. Box 104, Dept. TB** **Woodsboro, MD 21798** **800-499-7859; Fax: 301-845-6475**	Random-width t-&-g plank flooring from antique reclaimed oak, chestnut, and other hardwoods and pines. Kiln-dried and milled in various grades and sizes; rough cabinet lumber, stair treads, nosings, antique barn beams.	Free Write in No. 311	✔	✔	✔				✔	✔		Oak, pine, heart pine, chestnut, maple, ash, hemlock, hickory, poplar

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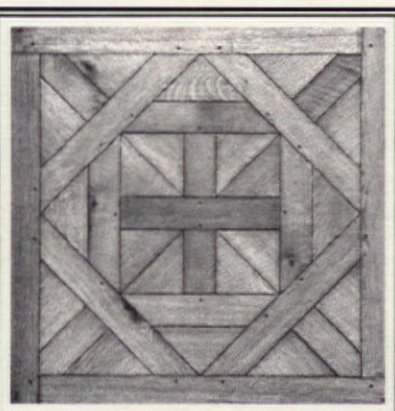

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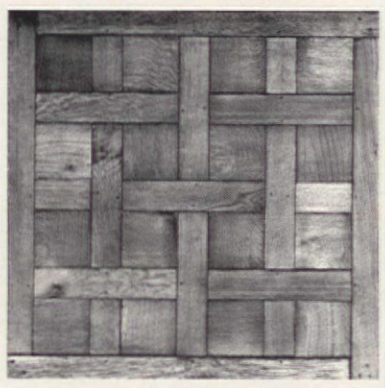

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Sawmill in Florida, 1937 - Photo courtesy of Florida Archives

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Heart Pine
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National Wood Flooring Association

WRITE IN NO. 539

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WRITE IN NO. 272

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SPECIALIST IN LONG LEAF HEART PINE

All of our products are custom made to your specifications.
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This is a commitment in every phase of production.
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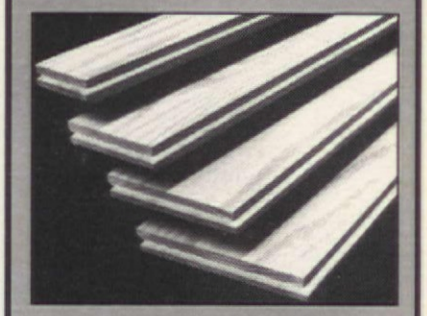
WRITE IN NO. 3460

YOUR RELIABLE SOURCE FOR SOLID WOOD FLOORING



Sheoga kiln dries, equalizes & conditions to a consistent moisture content of 6-8%. Then we precisely mill and pre-sand random width planks from Ash, Cherry, Red Oak, White Oak, Poplar, Walnut, Hard Maple and White Pine.

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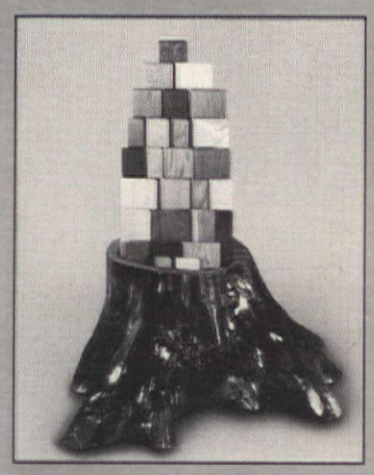

SHEOGA

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SHEOGA HARDWOOD FLOORING & PANELING, INC.
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FAX (216) 834-9310

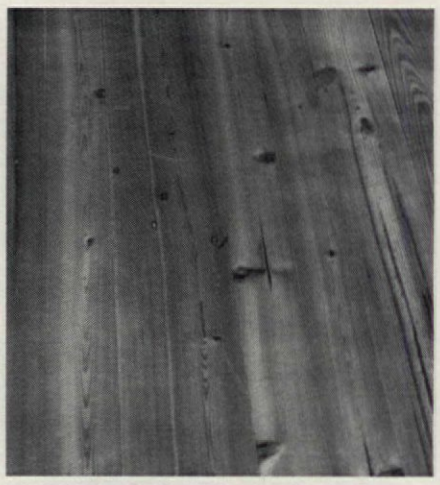
WRITE IN NO. 1660

WOOD FLOORING PORTFOLIO

For more information on these companies, consult the SourceList on pp. 68-72.

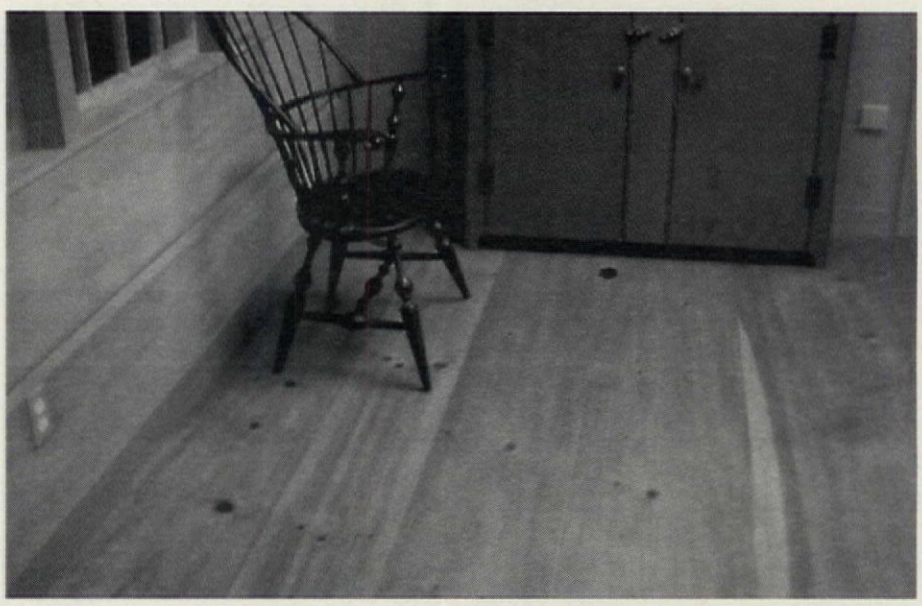
Whether the flooring is new or antique, THE WOODS COMPANY can supply the right species with the appropriate finish. *Write in No. 5600*

SOUTH COUNTY POST & BEAM supplies wide pine flooring from Eastern white pine that has been kiln-dried and surfaced on four sides to a finished face. *Write in No. 134*



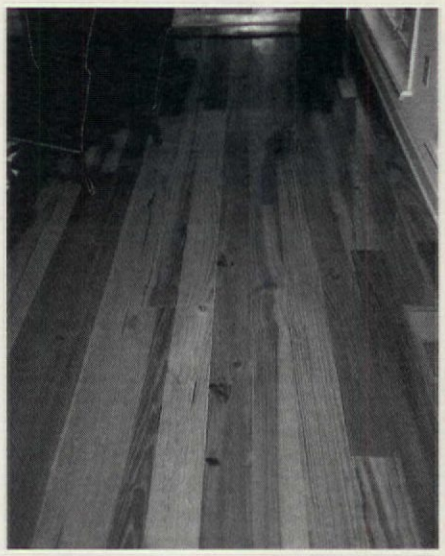
AUTHENTIC WOOD FLOORS lives up to its name by providing the kind of quality, antique heart-pine flooring pictured here. *Write in No. 8000*

COUNTRY ROAD ASSOCIATES converts 19th-century barn wood into furniture, including the table shown here, and flooring, such as this antique wide-board white-pine floor. *Write in No. 7480*

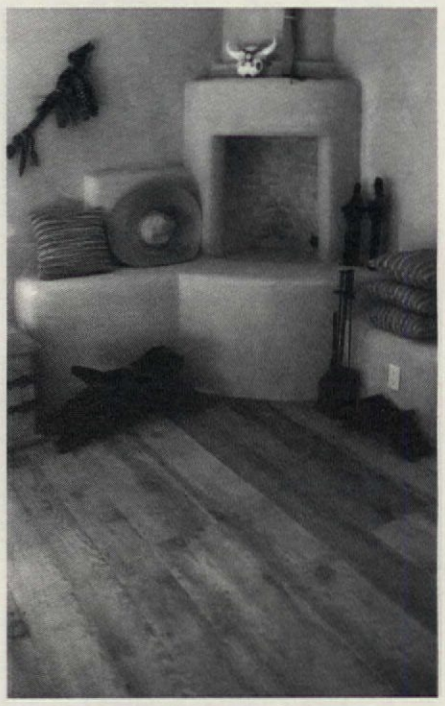


CRAFTSMAN LUMBER custom mills flooring in numerous wood species, including pine, oak, maple, cherry, and walnut. *Write in No. 4320*

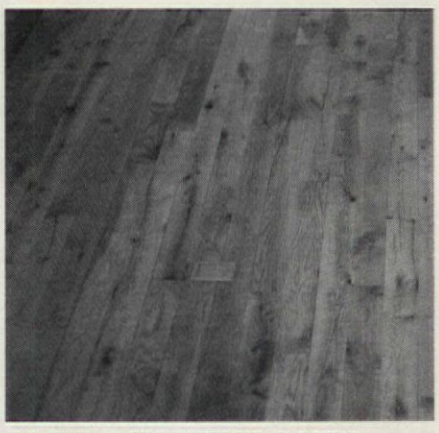
Heart-pine flooring from DARIEN MILLWORKS is a beautiful addition to the decor of the Blue Ridge Grill Restaurant in Atlanta, Ga. *Write in No. 565*



Longleaf new heart-pine flooring from RED HILLS LUMBER is a handsome addition to any interior. *Write in No. 756*



PLAZA HARDWOOD offers reclaimed, 18th-century, watersawn wide-plank pine flooring, such as the one pictured here, installed in a Santa Fe, N.M., residence. *Write in No. 723*



COCHRAN'S LUMBER & MILLWORK offers antique flooring in pine, oak, and chestnut. *Write in No. 9780*

For FREE Product Literature, use the enclosed postcard or the form on page 178.

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PINE

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- Complete Moulding & Millwork
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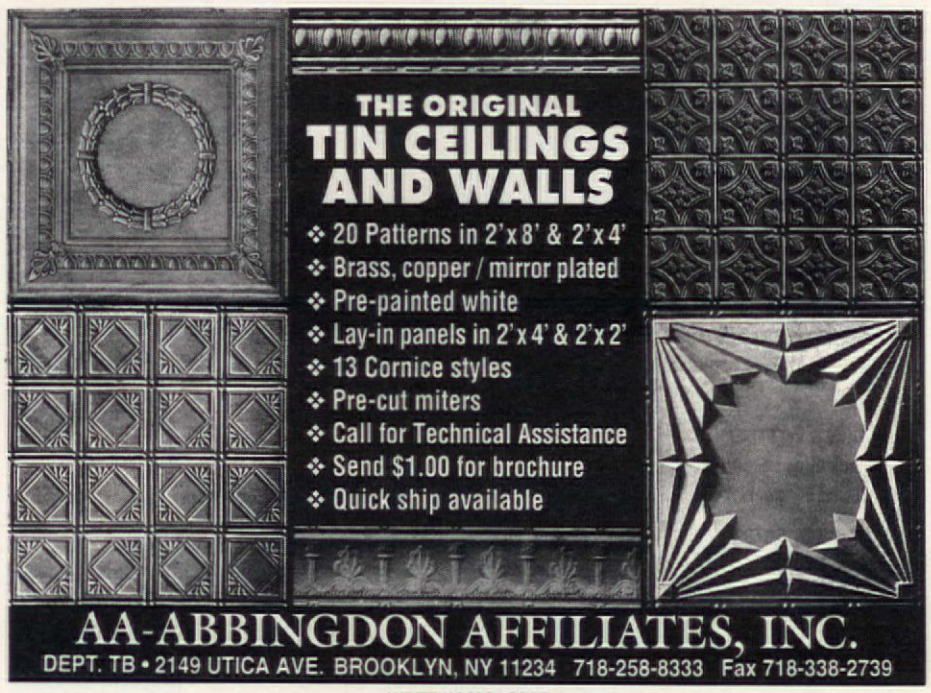

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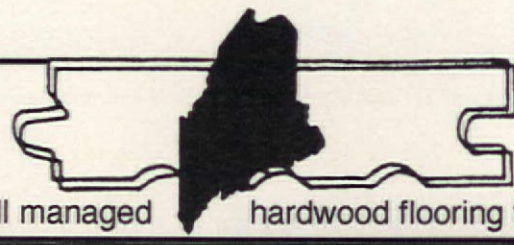
Member NASTA



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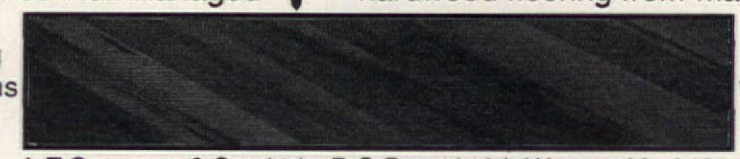
long lengths



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WRITE IN NO. 564

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- We distribute Red Hills Lumber

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WRITE IN NO. 565

WOOD FLOORING PORTFOLIO

For more information on these companies, consult the SourceList on pp. 68-72.

Herringbone flooring from SHEOGA HARDWOODS is available in a range of wood species and sizes. *Write in No. 1660*

The spectrum of flooring available from VINTAGE LUMBER CO. includes the reclaimed, chestnut flooring shown here: a random-width tongue-and-groove in a distressed grade. *Write in No. 311*

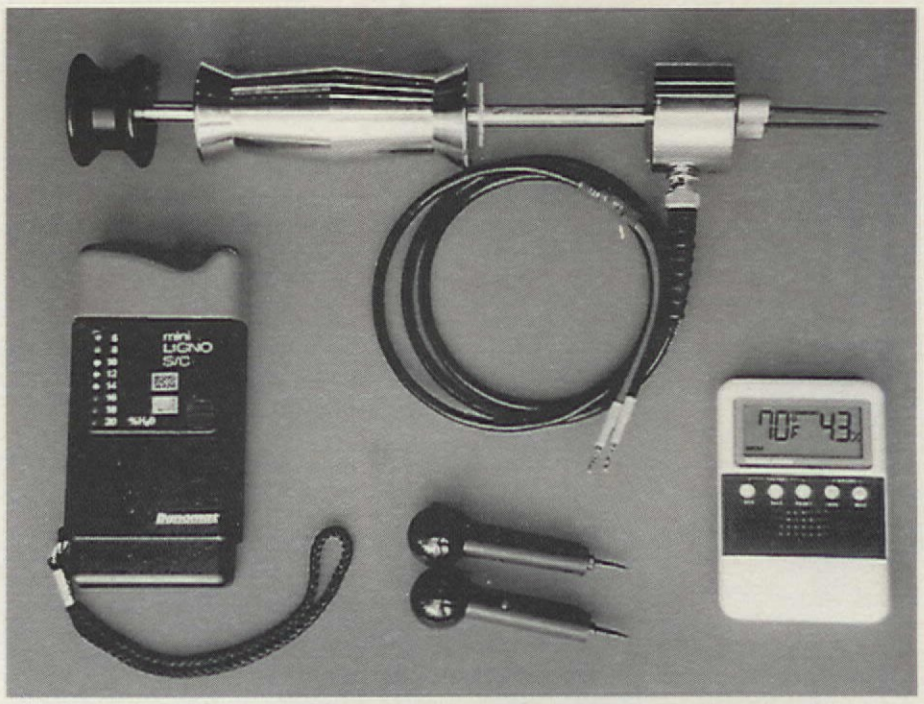
Antique flooring from NORTH FIELDS RESTORATIONS — such as the chestnut beauty shown here — is reclaimed from period houses and barns. *Write in No. 3260*

Even new heart-pine flooring from JAMES E. HARVEY MILLWORK gives a traditional, period feel to any interior. *Write in No. 3460*

Instant Access to Product Literature for WOOD FLOORING

If your office qualified to receive the 1998 TRADITIONAL BUILDING CATALOG, you'll find prefiled and indexed product literature there for the following suppliers of WOOD FLOORING:

Aged Woods, Inc.
Carlisle Restoration Lumber
Cochran's Lumber & Millwork
Craftsman Lumber Co.
Goodwin Heart Pine Co.
Vintage Lumber Co.



LIGNOMAT's "Professional Package" is a complete moisture-detection kit, with a pin-type wood-moisture meter, long-pin electrode, probes, and a thermo-hygrometer to measure ambient temperature and relative humidity. It's essential for determining moisture content in wood flooring before installation. *Write in No. 1120*

"Bamtex" bamboo flooring from MINTEC CORP. is an attractive, durable, and environmentally sound flooring material. *Write in No. 55*

HISTORIC FLOORS OF OSHKOSH combined twelve different woods to create its "Pheasant" floor medallion inlay. *Write in No. 9140*

PENNINGTON HARDWOODS

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& More
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in
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or
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WRITE IN NO. 736

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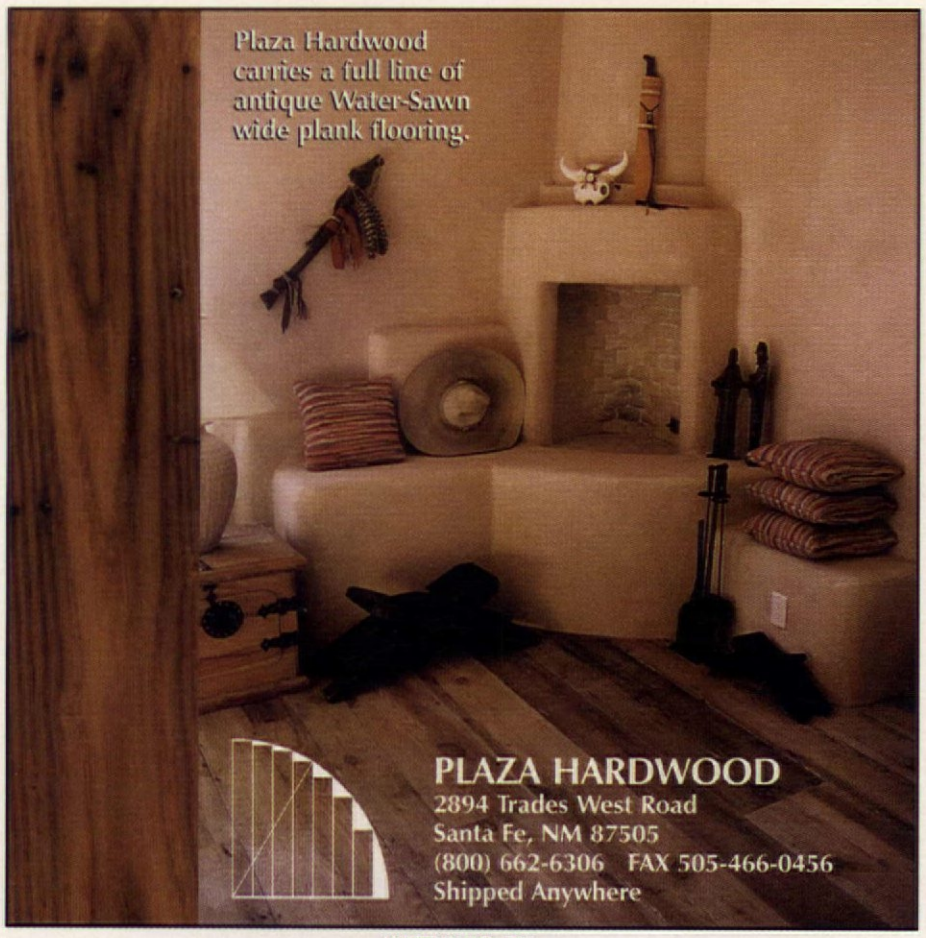
Wideboard & Plank Antique Flooring
Remilled From Hand Selected Antique Lumber.
Large Inventory of Chestnut, Oak, and Pine.

For Information Call Dave Wasley 860-283-4209

WRITE IN NO. 8780



WRITE IN NO. 723

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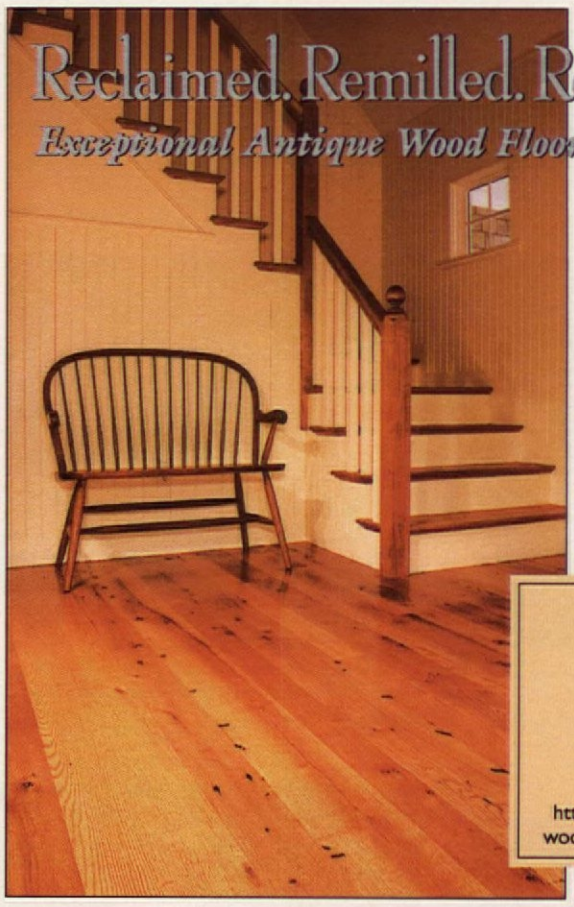

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WRITE IN NO. 311

"When contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building."
— The Editors

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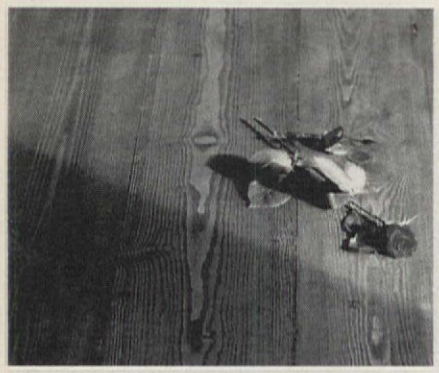
WRITE IN NO. 572

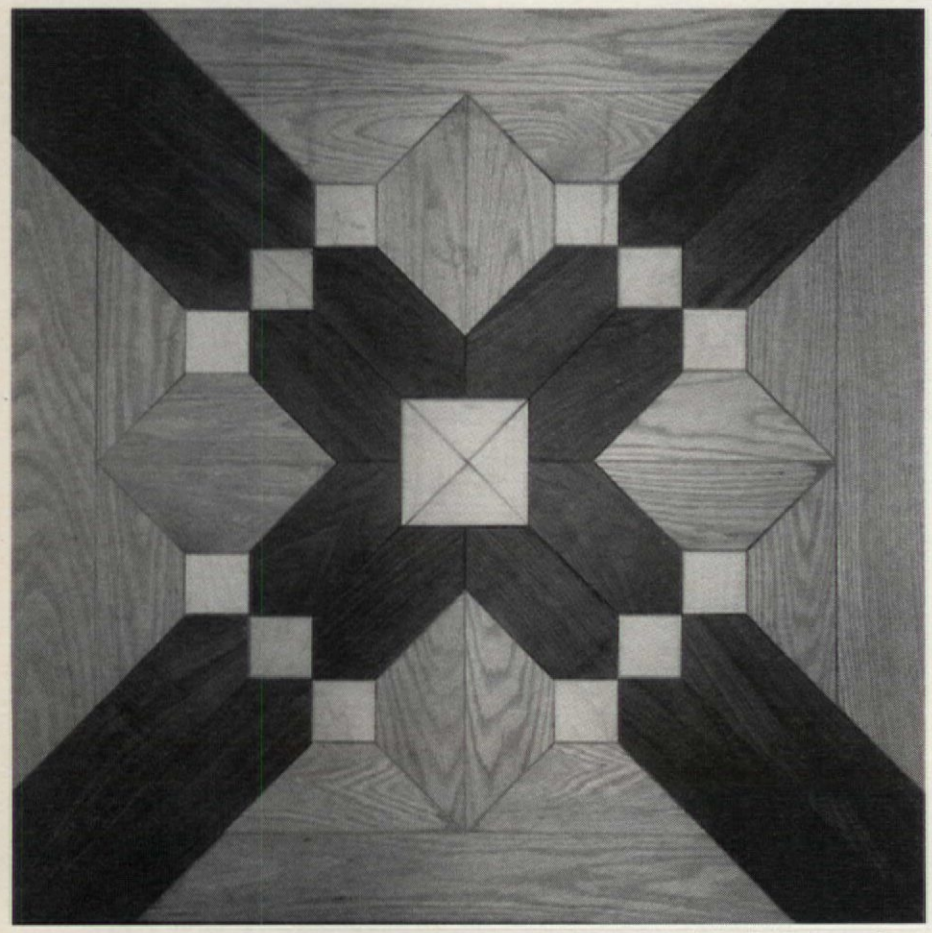
WOOD FLOORING PORTFOLIO

For more information on these companies, consult the SourceList on pp. 68-72.



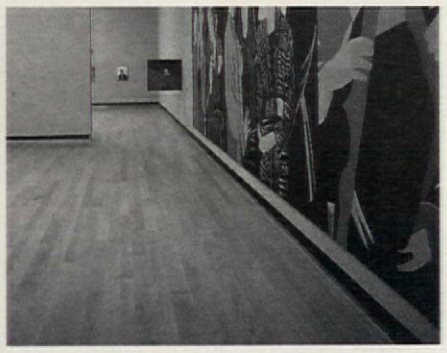
GOODWIN HEART PINE's river-recovered timbers are turned into beautiful flooring, such as this 10-in.-plank heart-pine floor for a residence in Tampa, Fla. *Write in No. 1330*

The custom milling of reclaimed timbers into new flooring is a way of life at PIONEER MILLWORKS. *Write in No. 6370*



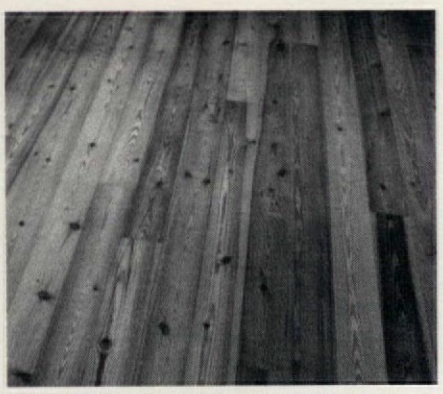
High-quality parquet flooring from NATIONAL HARDWOOD is available in stock and custom designs. *Write in No. 4210*

Thanks to the professionals of LONGWOOD RESTORATION, salvaged, antique heart-pine flooring found a new life in this residence. *Write in No. 564*

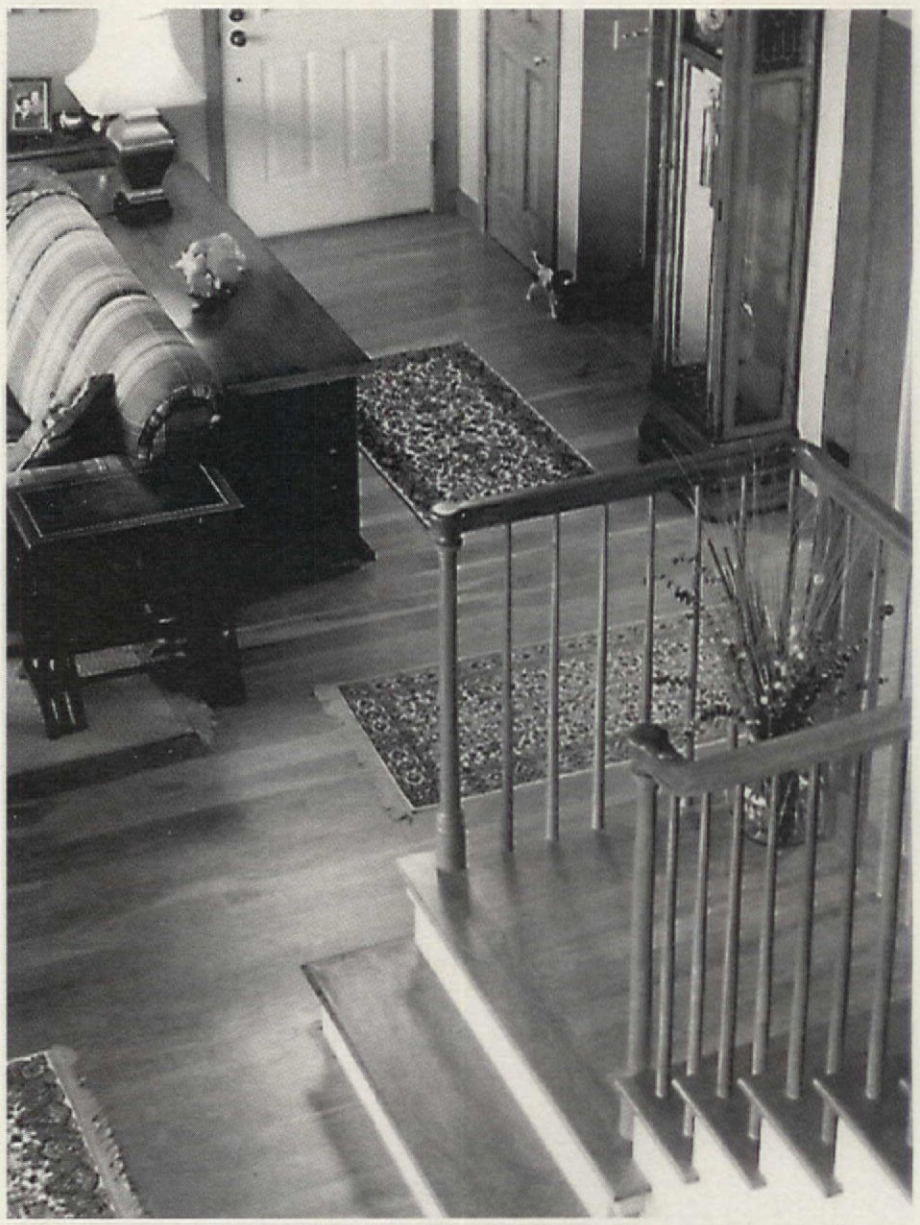


For the Katz Museum at Colby College in Waterville, Me., A.E. SAMPSON & SON milled this random-width flooring from FSC-certified, well-managed forest maple. *Write in No. 759*

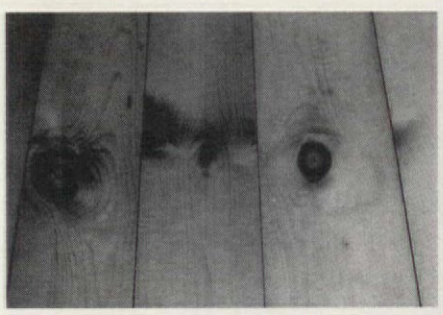
CHESTNUT SPECIALISTS lives up to its name by supplying handsome, re-milled, random-width antique chestnut flooring such as the example shown here. *Write in No. 8780*



RIVERWOOD HEART PINE CO. rescues logs and trees from river bottoms, kiln dries the wood, and converts it into residential flooring. *Write in No. 539*

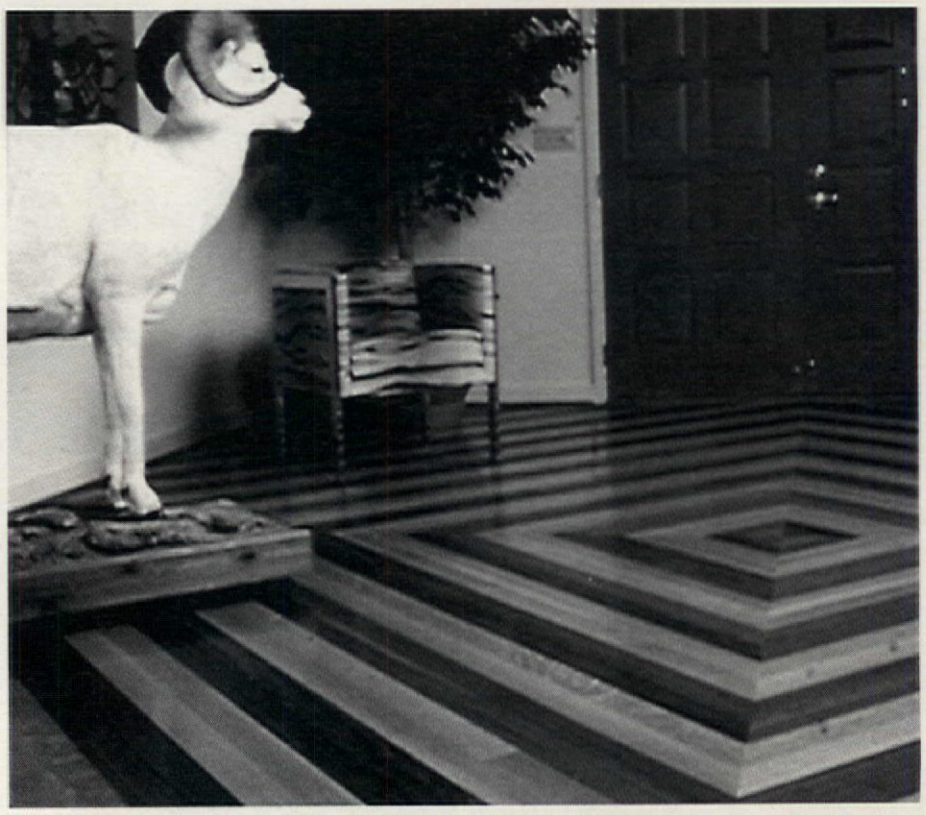


VERMONT HARDWOODS' "Heritage Flooring" line includes the cherry flooring pictured here. *Write in No. 716*



Antique flooring is available from PATINA WOODS CO. in white oak, red oak, chestnut, white pine, and hemlock. *Write in No. 569*

Resawn and "as is" heart-pine planking can always be found at DULUTH TIMBER CO. *Write in No. 112*



Using high-quality Northern Appalachian hardwoods, flooring from PENNINGTON HARDWOODS is tongue-and-groove on four sides, precision milled, and pre-sanded. *Write in No. 736*

SourceList 80-84
Portfolio 84-88

STONE & CERAMICS: VALUED MATERIALS FOR RESIDENTIAL & COMMERCIAL FLOORS

"Non-wood flooring" may be the classic example of defining something positive in negative terms, but in light of the broad range of flooring materials that don't grow on trees, "non-wood" is still the most useful umbrella term.

Of course, at least one non-wood flooring does grow on trees: Cork is gaining in popularity, thanks to such suppliers as Dodge-Regupol and Cork America. Ordinarily, however, non-wood flooring refers to either stone or ceramic. Just a quick look at some of the players in stone flooring will give you an idea of the spectrum of possible materials: Echeguren Slate, Alpha Granite & Marble, Robinson Flagstones, Decorative Cast Basalt. On the ceramic side of the fence, the possibilities are no less vast, from the glazed tiles of Impronta and the stone-colored tiles of Classic Ceramic Tile to the tile "rugs" of Native Tile & Ceramics. Both materials can also be fashioned into superb artistic statements: Fishman Mosaics, Terra Designs, Ancient Venetian Floor Company, Zanolin Artistic Mosaics, and Intarsia are just some of the companies who have made true works of art for the floor.

If your search for the right flooring has led you out of the woods, you can still find something your client will be proud to stand on. ■

Instant Access to Product Literature for NON-WOOD FLOORING

If your office qualified to receive the 1998 TRADITIONAL BUILDING CATALOG, you'll find prefiled and indexed product literature there for the following suppliers of NON-WOOD FLOORING:

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Ceramica Cerim
Designs In Tile
Metropolitan Ceramics
National Terrazzo & Mosaic Assn.

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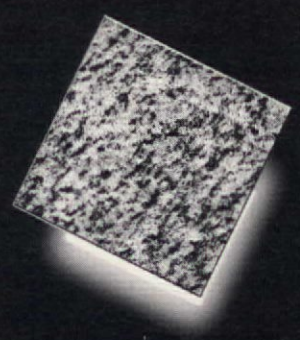

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WRITE IN NO. 99

TRADITIONAL BUILDING'S NON-WOOD FLOORING *SourceList*

CSI# 09600

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING: Quarry Tile	Ceramic Pavers	Terrazzo	Brick	Natural Stone	Cast-Concrete Pavers	Poured In Place	Mosaics	Resilient	Other	Types of Stone	Water-Jet Cutting
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Ancient Venetian Floor Co. 1516 Edison Street, Dept. TB Dallas, TX 75207 214-741-4555; Fax: 214-741-4147	Hand-crafted floor designs and table tops; recreate ancient works of art from churches in Rome and Venice; many use small pieces of rare and unusual colors of marble and semi-precious stone; also, medallions and borders.	Free Write in No. 99								✔		Medallions, borders	Marble, semi-precious stone	
Ancor Granite Tile 435 Port Royal West, Dept. TB Montreal, PQ CANADA H3L 2C3 514-385-9366; Fax: 514-382-3533	Manufacturer of natural-granite tile and modular panels for floors and walls, interior and exterior use.	Free Write in No. 120					✔						Granite	
Architectural Features/Charles Madden 21 Conwell Dr., Dept. TB Maple Glen, PA 19002 215-646-1599; Fax: 215-643-7272	National and international art creations for government, institutions; public art & liturgical projects; works in mosaic, art glass, bronze, marble, and tapestry; fully dimensional sculptures and mural projects a specialty.	Free Write in No. 1502								✔			Marble, granite	
ARDEX, Inc. 1155 Stoops Ferry Road, Dept. TB Coraopolis, PA 15108 412-604-1200; Fax: 412-264-1622	Maker of Ardex SD-T Portland cement-based (not gypsum!), self-leveling, self-drying concrete topping, which installs quickly and easily indoors over concrete to provide a hard, smooth, flat concrete surface.	Free							✔			Self-leveling, decorative concrete toppings and underlayments		
Artcrete, Inc. 5812 Hwy. 494, Dept. TB Natchitoches, LA 71457 318-379-2000; Fax: 318-379-1000	Imprinted-concrete cast-in-place paving in faux-brick or faux-stone styles; stencils can be used to mask off mortar joints prior to coloring concrete.	Free Write in No. 2140							✔					
Burlington Natstone, Inc. 2701-C W. 15 St., Ste. 505, Dept. TB Plano, TX 75075 972-985-9182; Fax: 972-612-0847	Stone is available in five different colors; can be supplied as flooring, paving, cladding, tops, and roofing.	Free					✔						Slate	
Ceramica Cerim 20 South Main St., Dept. TB Southampton, NY 11968 516-287-9033; Fax: 516-287-9034	Porcelain tile for renovation and new construction; frost-proof, stain- and chemical-resistant; excellent for high-traffic areas. Interior and exterior tile.	Free		✔								Floor and porcelain tiles		✔
Champlain Stone, Ltd. P.O. Box 650, Dept. TB Warrensburg, NY 12885 518-623-2902; Fax: 518-623-3088	Guillotined and hand-split granite, quartzite, sandstone, and limestone for building veneer, wall stone, flagging, step slabs, and landscape boulders.	Free Write in No. 4270										Natural-stone flagging	Granite, limestone, sandstone, quartzite	
Charles Tiles, Inc. 439 Central Ave., Dept. TB Westfield, NJ 07090 908-232-9533; Fax: 908-232-9534	Supplier of antique stone and mosaic flooring; domestic stone and tile flooring; limestone and slate floors. See also their second store on Railroad Avenue in Stockton, N.J.; 609-397-0330.	Free Write in No. 549	✔			✔	✔			✔		Terra-cotta tiles	Marble, granite, slate, limestone	
Circle Redmont, Inc. 2760 Business Center Blvd., Dept. TB Melbourne, FL 32940 800-358-3888; Fax: 407-259-7237	Structural, prefabricated, monolithic panel systems incorporating glass block, pavers, and bullets; composite laminated glass sheets; and insulated glass. Flooring, stair treads, skylights, windows, walls, complete structures, more.	Free Write in No. 379										Glass pavers		
Classic Ceramic Tile, Inc. 124 Tiles Lane, Dept. TB East Brunswick, NJ 08816 732-238-7770; Fax: 732-238-2904	Unique rustic ceramic-tile floors with natural-stone tones and weathered appearance.	Free	✔				✔			✔		Ceramic	Marble, granite, slate, limestone	
Cork America 5657 Santa Monica Blvd., Dept. TB Los Angeles, CA 90038 800-795-2675; Fax: 213-465-5866	Manufacturer of quality Portuguese cork wall and floor tiles in unfinished, waxed, satin poly, or high-gloss poly. A range of colors and textures are available.	Free									✔	Cork tiles, linoleum		
Decorative Cast Basalt 110 McGraw Ave., Dept. TB Webster Springs, WV 26288 800-645-7187; Fax: 304-847-7113	Environmentally safe natural-stone flooring, with no chemicals or other impurities. Also, ornamental stone for exteriors: pavers, retaining walls, pond liners, edging, and more.	Free Write in No. 691					✔						Basalt	
DePaoli Mosaic Co. 126 Magazine St., Dept. TB Boston, MA 02119 617-445-2381; Fax: 617-442-5618	All types of terrazzo and seamless composition flooring; installations throughout New England; Art Deco Terrazzo-Design assistance, restoration, recommendations, budget prices, and samples.	Free Write in No. 2320			✔							Seamless composition flooring		
Designs in Tile P.O. Box 358, Dept. TB Mt. Shasta, CA 96067 530-926-2629; Fax: 530-926-6467	Custom historic tiles and murals for interiors or exteriors. Victorian mosaic entries and cut-tile geometric floors, Arts & Crafts-style hand-decorated pavers, pools, fountains, fireplaces, molded trim, and square-edge, porcelain hex tiles. Custom work.	Free Write in No. 250	✔	✔						✔		Cut-tile geometrics		✔
Dodge-Regupol, Inc. P.O. Box 989, Dept. TB Lancaster, PA 17608 800-322-1923; Fax: 717-295-3414	Manufactures 3 shades of natural-cork floor tiles in unfinished, waxed, or polyurethane coated, and tiles made of recycled rubber in a variety of colors. Both materials are suitable for commercial or residential interiors.	Free Write in No. 3420									✔	Cork tiles, rubber flooring		✔
Earth Song Studio RR2, Site 22 C13, Dept. TB Gabriola Isl., BC CANADA V0R 1X0 250-247-7424; Fax: 250-247-7424	Hand-cast ceramic accent tiles and wall hangings from artist's original carvings. Matching plain tiles, borders; all kinds of custom work, including carving and architectural pieces, hand-painting, odd sizes, murals, and table tops.	Free										Ceramic tile		
Echeguren Slate, Inc. 1495 Illinois Street, Dept. TB San Francisco, CA 94107 800-992-0701; Fax: 415-206-9353	Importer and distributor of an extensive line of roofing tiles and slate flooring; stock includes slate from Spain, China, Brazil, India, and Africa; can dispatch on short notice.	Free Write in No. 7220					✔						Slate, sandstone, quartzite	
Epstone, Inc. 55 Jacobus Avenue, Dept. TB Kearny, NJ 07032 973-817-7711; Fax: 973-817-7375	High-end ceramic tile, porcelain tile, and stone flooring. New line of 1/2-in.-thick terrazo tiles.	Free			✔		✔			✔		Porcelain tile	Marble, slate, limestone, sandstone	
Ex:Inc./Sannini Terra Cotta 155 East 56 St., Dept. TB New York, NY 10022 212-758-2593; Fax: 212-758-0025	Distributor of factory-treated Italian terra-cotta tiles in two finishes, arrotato (extruded and brushed) and litos (extruded smoother surface). Also, glazed handmade tiles.	Free			✔		✔		✔	✔		Terra-cotta tile	Marble, granite, limestone	
Farrodyne USA, Inc. 1027 W. Jackson Blvd., Dept. TB Chicago, IL 60607 312-226-0772; Fax: 312-226-0806	Company water-cuts custom floors and medallions out of stone, glass, and metal, using water traveling at Mach 3. Services include fabrication of complex inlays out of any combination of materials, such as marble with stainless steel or limestone with brass and ceramic.	Free Write in No. 776										Unique tiles with a water-etched texture of any depth	Any specified	✔

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e-mail: Info@MetropolitanIndustries.com

WRITE IN NO. 54

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The World's Leading Resource for Exotic Stone Finishes

Red River Jasper Bar Top

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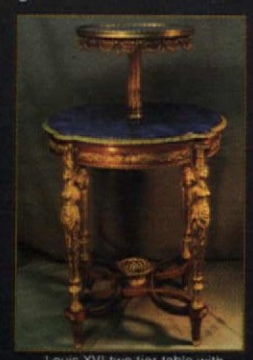
Rock crystal and lapis oblisks. Malachite inkwell

Tiles, accents, border trim, furniture inlay



Louis XVI two tier table with fine lapis table top

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WRITE IN NO. 2190

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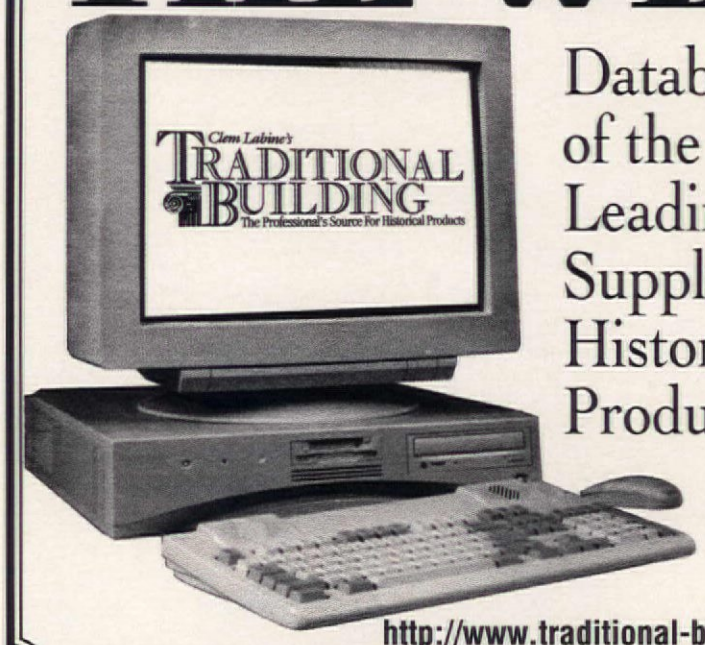

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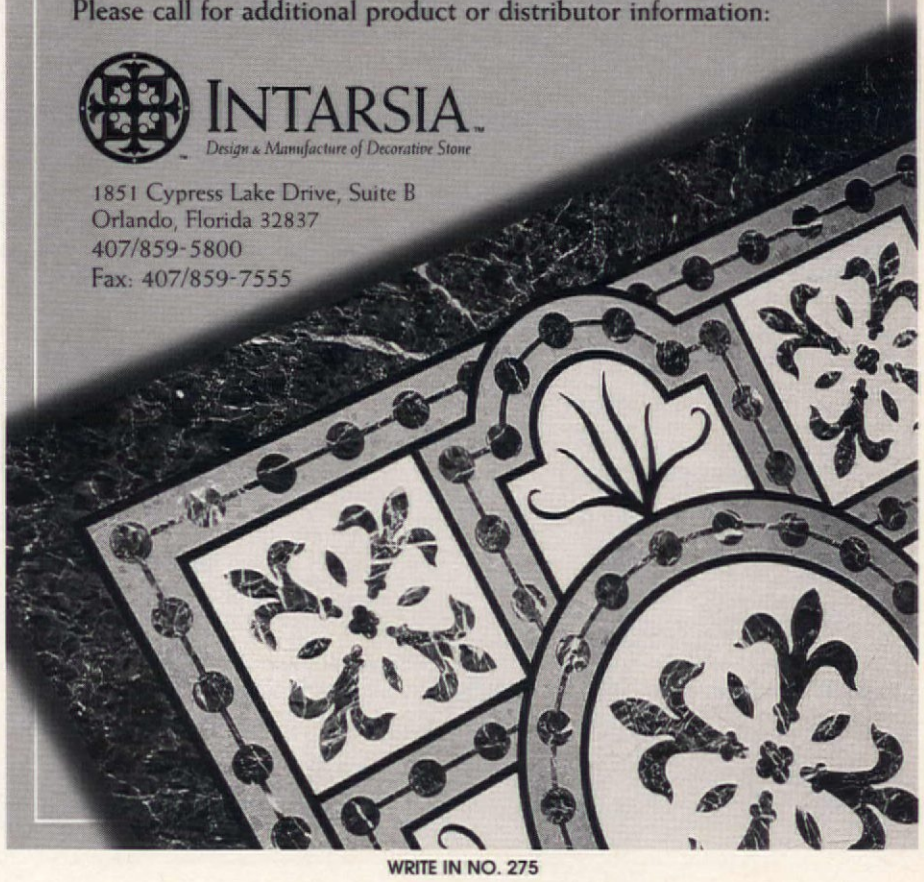

WRITE IN NO. 275

"When contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building."
— The Editors

TRADITIONAL BUILDING'S NON-WOOD FLOORING *SourceList*

CSI# 09600

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING										Types of Stone	Water-Jet Cutting
			Quarry Tile	Ceramic Pavers	Terrazzo	Brick	Natural Stone	Cast-Concrete Pavers	Poured In Place	Mosaics	Resilient	Other		
Fishman Mosaics **103 NE 99 Stret, Dept. TB** **Miami, FL 33138** **305-758-1141; Fax: 305-751-1770**	Mosaics in glass, porcelain, and glazed tiles; ceramic murals; pictorial and abstract images; flat panels or sculptural forms for walls, floors, pools, and fountains; period and contemporary.	Free Write in No. 183								✔				
Gauthier & Clovis **10521 Santa Monica Blvd., Dept. TB** **Los Angeles, CA 90025** **310-441-3931; Fax: 310-441-3946**	Flooring in limestone or marble. Also, ceramic pavers; antique terra-cotta tiles; other architectural elements.	Free		✔			✔					Antique terra-cotta tiles	Marble, limestone	
GranitiFiandre by Trans Ceramica, Ltd. **1159 Bryn Mawr, Dept. TB** **Itasca, IL 60143** **630-285-1110; Fax: 630-285-1109**	Porcelain stoneware from Italy; interior ceramic paving and flooring materials.	Free											Geologic stone, porcelain	✔
Hastings Pavement Co. **30 Commercial Street, Dept. TB** **Freeport, NY 11520** **800-874-4717; Fax: 516-379-0570**	Specialties include versatile asphalt blocks, concrete pavers, checker blocks, and brick for streetscapes; grass reinforcements for pedestrian and vehicular traffic. Also, imported and domestic tile and bath products.	Free Write in No. 6195	✔			✔	✔	✔		✔		Glass, porcelain, and ceramic tile	Marble, limestone, travertine	
Illahe Tileworks **695 Mistletoe Rd., #E, Dept. TB** **Ashland, OR 97520** **541-488-5072; Fax: 541-488-2741**	Handmade and hand-painted tile, contemporary and traditional. Relief and geometric tile in Victorian and Arts & Craft styles.	Free Write in No. 445										Ceramic tile		
Imagine Tile **10 Exchange Pl., Dept. TB** **Jersey City, NJ 07302** **201-435-8453; Fax: 201-435-4646**	Company uses computer graphics to create vivid, high-resolution imagery on durable ceramic tiles; custom images can also be produced.	Free										Ceramic tile		✔
Imperial Black Marble Co. **Hwy. 25E, Dept. TB** **Thorn Hill, TN 37881** **423-767-2888; Fax: 423-531-2954**	Quarrier and fabricator of Cambrian Period Black Marble works. Altars, mensa tables, baptismal fonts, sculpture, flooring, and more. All custom work.	Free Write in No. 9740					✔						Cambrian black marble	
IMPRONTA/Marketing & Trade Co. **650 Dundee Road, #275, Dept. TB** **Northbrook, IL 60062** **847-480-7407; Fax: 847-480-7417**	Italian cermic-tile manufacturer specializing in high-quality glazed tile for floors and walls. Special pieces are available for each series.	Free		✔								Glazed ceramic tile		
Increte Systems, Inc. **8509 Sunstate St., Dept. TB** **Tampa, FL 33634** **800-752-4626 or 813-886-8811**	Manufactures stamped-concrete systems and textured overlays in authentic replicas of stone, brick, tile, slate, and wood at a fratcion of the cost.	Free Write in No. 748							✔			Stain-Crete permanent chemical stain for concrete		
Intarsia, Inc. **1851 Cypress Lake Dr., Suite B, Dept. TB** **Orlando, FL 32837** **407-859-5800; Fax: 407-859-7555**	Designs and manufactures decorative stone medallions, tiles, and accents; 90 catalog designs, all joint-free, grout-free, reground, and polished; rustic honed acid-washed finish available.	Free Write in No. 275					✔					Medallions, borders, accents	Marble, granite, limestone, onyx	✔
ITALGRANITI/Marketing & Trade Co. **650 Dundee Road, #275, Dept. TB** **Northbrook, IL 60062** **847-480-7407; Fax: 847-480-7417**	Italian porcelain tile for all commercial and residential uses, floors and walls. Line includes authentic-looking stone replicas in natural, polished, and textured finishes. Trim and special pieces are available for all series.	Free										Unglazed porcelain tile		
Johnson, H&R **P.O. Box 2335, Dept. TB** **Farmingdale, NJ 07727** **732-528-2248; Fax: 732-528-2249**	Company manufactures the Minton Hollins Collection of Victorian ceramic tiles, geometrics, encaustics, and other tiles for use in fireplace surrounds, floors, etc. CAD service; setting materials and grouts.	Free Write in No. 8550	✔									Ceramic tile		
Leyshon Antique Building Materials **Badgers Cottage, Compton Dundon, Dept. TB** **Somerton, UK TA1 6P3** **01458272194; Fax: Same as phone**	Source for old oak beams and floorboards; old European floor tiles, fireplaces, brick.	Free Write in No. 572										Antique tile		
London Tile Co. **65 Walnut St., Dept. TB** **New London, OH 44851** **419-929-1551; Fax: 419-929-1552**	Glazed and unglazed floor, wall, and counter tiles. Tiles 3/8 in. thick, shipped in 10-sq.ft. packages with 3/8-in. mortar joint. Pavers manufactured in 3/8- up to 1-1/2-in. thickness.	Free Write in No. 500										Ceramic tile		
Malibu Art Tile & Stone **23852 Pacific Coast Hwy, #116, Dept. TB** **Malibu, CA 90265** **818-706-7369; Fax: 818-706-2766**	Maker of custom and reproduction handmade tiles in Spanish/Mediterranean, Saracen, Moorish, Greek, Art Deco, Pueblo Deco, and Southwest styles. Also, a full line of field tile and trim for interior or exterior use, made to order.	Free	✔	✔			✔			✔			Marble, granite, slate, limestone, sandstone, travertine	✔
Metropolitan Ceramics **1201 Millerton Rd., SE, Dept. TB** **Canton, OH 44707** **330-484-4887; Fax: 330-484-4880**	For indoor and outdoor use, these 1/2-in.-thick ceramic quarry tiles feature low absorption, slip resistance, relieved edges, and blendable colors, sizes, and shapes. They are available in a variety of warm natural shades.	Free Write in No. 54										Ceramic quarry tile		
Native Tile and Ceramics **4230 Glencoe Ave., Dept. TB** **Marina del Rey, CA 90292** **310-823-8684; Fax: 310-823-2852**	Custom and restoration tiles using blackline resist and relief methods. Mission, Craftsman, and Deco styles a specialty; inspired by Batchelder, Malibu, and Catalina tiles. Decorative trims, floor inserts, murals, fireplace fronts.	Free Write in No. 570	✔									Ceramic tile		
Nocera Art Tile Co. **20 Kirk St., Dept. TB** **West Orange, NJ 07052** **973-325-7528; Fax: 973-325-7528**	Relief and hand-painted ceramic tile; architectural terra cotta, Art Deco, and patterned tile. Glaze matching; murals and panels in any style.	Free Write in No. 6100										Ceramic tile		
O'Neill Co., Inc., E.H. **1405 Chippendale Road, Dept. TB** **Lutherville Timonium, MD 21093** **410-560-2244; Fax: 410-252-9767**	Maker of 'Magnaflor,' a seamless, inorganic flooring of magnesium oxychloride, which is watertight, odorless, durable, and comes in a range of colors.	Free										Magnesite (magnesium oxychloride cement)		
Renaissance Stoneworks, Inc. **77 Albertson Ave., Dept. TB** **Albertson, NY 11507** **516-742-7270; Fax: 516-742-2101**	Exotic, semi-precious stone finishes; design and manufacturing of furniture, countertops, floor and wall tile, and accessories for residential and commercial interiors.	Free Write in No. 2190					✔						Semi-precious stone	
Rhodes Studio **2130 Oakdale Ave., Dept. TB** **San Francisco, CA 94124** **415-641-8070; Fax: 415-641-1575**	Precast, integrally colored concrete counters, tiles, furniture, and fireplace surrounds.	Free Write in No. 737				✔		✔						✔
Riverside Tile Works **111 First St., Dept. TB** **Jersey City, NJ 07302** **201-216-1806; Fax: 201-792-1090**	Custom studio produces wide variety of hand-crafted architectural ceramics, including glazed and unglazed terra cotta, handpainted and embossed tiles and trim, interlocking tile patterns, mosaics, fireplaces, furniture.	Free Write in No. 707								✔		Ceramic tile		

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WRITE IN NO. 8550

TRADITIONAL BUILDING on THE WEB

Database of the 205 Leading Suppliers of Historical Products

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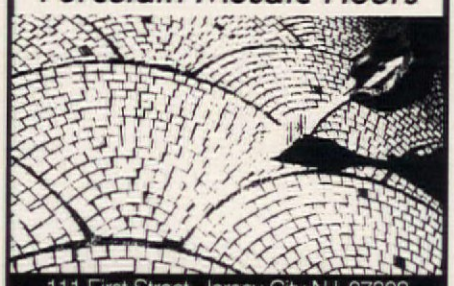
There you'll find a database of the 205 companies most frequently mentioned in the pages of the magazine . . . indexed in 95 product categories.

If you can't find a company you believe you've seen in the pages of TRADITIONAL BUILDING MAGAZINE, try searching the database at:

http://www.traditional-building.com

RIVERSIDE TILEWORKS
introduces
Porcelain Mosaic Floors



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WRITE IN NO. 707

WRITE IN NO. 570

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WRITE IN NO. 9740

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c. Inlaid table top

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Charles Tiles, Inc.

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439 Central Ave., Westfield, NJ 07090 908-232-9533

WRITE IN NO. 549

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WRITE IN NO. 500

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ABOVE MANTLE MURALS
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WRITE IN NO. 6100

Mosaic Artwork
by George F. Fishman

GEORGE FISHMAN recreated this church detail in glass smalti. Pictorial subjects treated in modern and traditional styles.

www.netrox.net/~mosaics
103 NE 99 Street
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Fax: 305.751.1770

WRITE IN NO. 183

TRADITIONAL BUILDING'S NON-WOOD FLOORING *SourceList*

CSI# 09600

COMPILED BY COLE GAGNE

COMPANY	SPECIALTY	Literature	TYPES OF FLOORING: Quarry Tile	Ceramic Pavers	Terrazzo	Brick	Natural Stone	Cast-Concrete Pavers	Poured In Place	Mosaics	Resilient	Other	Types of Stone	Water-Jet Cutting
Robinson Flagstone P.O. Box 208, Dept. TB Fort Washington, PA 19034 215-646-3500; Fax: 215-646-1855	Offers a wide variety of Pennsylvania bluestone in various thicknesses, sizes, and edge finishes. All types of custom cutting for new construction; restoration work available. Design service and assistance offered.	Free Write in No. 9790					✔						Bluestone	
Stone Legends 301 Pleasant Drive, Dept. TB Dallas, TX 75217 800-398-1199; Fax: 214-398-1293	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for balustrades, columns, fountains, pavers, steps, signs, wall caps, and landscape and garden ornament. Custom casting.	Free Write in No. 8630						✔						
Terra Designs Tileworks P.O. Box 913, Dept. TB Dover, NJ 07802 973-328-1135; Fax: 973-328-3624	Fabricator of custom ceramic tile and ceramic mosaics. Specialist in historic replication; Arts & Crafts-style glazed stoneware mosaics; glazed & unglazed porcelain mosaics; terra-cotta faience; decorative wall tile.	Free Write in No. 2790								✔		Ceramic tile		
Urban Archaeology 143 Franklin Street, Dept. TB New York, NY 10013 212-431-4646; Fax: 212-343-9312	Traditional tile for floors and walls. Also, architectural antiques, one-of-a-kind lighting fixtures (Victorian-'40s), reproduction lighting fixtures, antique and reproduction plumbing fixtures.	Free Write in No. 2990										Ceramic tile		
Wausau Tile, Inc. P.O. Box 1520, Dept. TB Wausau, WI 54402 800-388-8728; Fax: 715-355-4627	Manufactures precast-concrete pavers in 30 colors, and terrazzo flooring in over 60 colors. Also, site amenities: planters, waste receptacles, bollards, ash snuffers, recycling containers, tables, benches, and signs.	Free Write in No. 4120			✔									✔
World Wide Stone Corp. 5236 S. 40th St., Dept. TB Phoenix, AZ 85040 602-438-1001; Fax: 602-438-6888	Quarrier and producer of Durango Stone™. Marble, limestones, and travertines. Honed, polished, ancient and antique finishes. From 4 x 4 in. up to 24 x 24 in. Accents, trim, and deco strips, along with custom production.	Free	✔				✔			✔		Tumbled Durango Stone™	Marble, limestone	
Zanolin Artistic Mosaics RD 1, Box 211C, Rte. 343, Dept. TB Dover Plains, NY 12522 914-677-6011; Fax: No Fax	Mosaic murals executed in smalti glass and marble; also, repair and restoration of old mosaics.	Free								✔		Glass mosaic (smalti)	Marble	

NON-WOOD FLOORING PORTFOLIO

For more information on these companies, consult the SourceList on pp. 80-84.

Custom, handmade tile flooring, in any size, shape, and colors, is a specialty of BUDDY RHODES STUDIO. *Write in No. 737*

For the John B. Hynes Veterans Memorial Convention Center in Boston, Mass., BURLINGTON NATSTONE supplied the Elterwater, Broughton Moor, and Bursting Stone honed flooring.

Cork flooring tiles from DODGE-REGUPOL provide warmth and beauty for the kitchen of this private residence in Lancaster, Pa. *Write in No. 3420*

Sannini Impruneta's 6-in.-x-12-in. tiles, available through EX:INC, range from the Cottoflash series with a Litos finish to various handmade, glazed terra-cotta tiles.

INTARSIA executed this superb, 10-ft.-diameter floor medallion, designed by Cathy Ma, for a private residence in Palm Beach, Calif. Brass surrounds were used for all leaf sections and borders. *Write in No. 275*

Slate flooring from ECHEGUREN SLATE brings a handsome range of color and texture to any interior. *Write in No. 7220*

For a private residence in New York City, ARCHITECTURAL FEATURES/ CHARLES MADDEN created a colorful mosaic floor design. *Write in No. 1502*

Decorative Cast Basalt Sales

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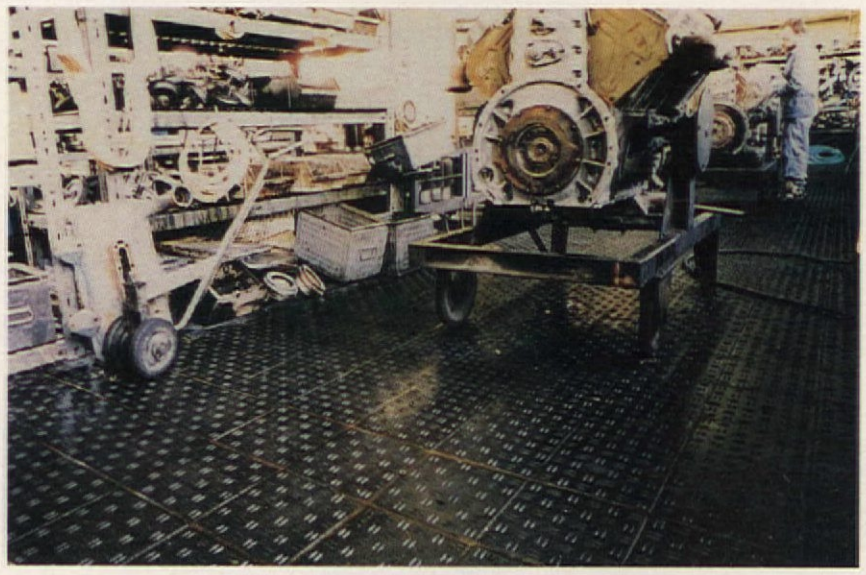

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Please refer to the July 6, 1998, Association Press Release about 109 yards of road being uncovered, including basalt paving stones, when archaeologists uncovered the remains of a 5th-century Byzantine shopping mall at a site in northern Israel where a new mall is to be built.

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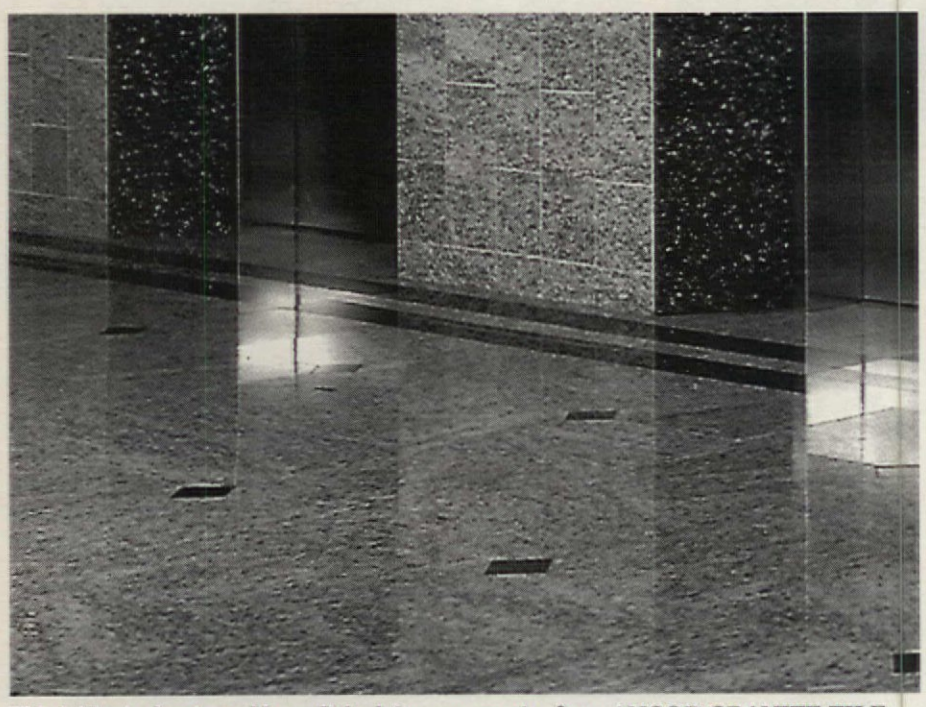
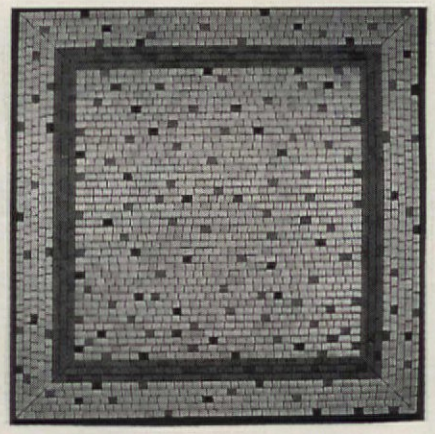


This lobby is dominated by polished Oconee granite from ANCOR GRANITE TILE; Blue Pearl granite accents highlight the walls. *Write in No. 120*

LONDON TILE's "Cobblers Tan" flooring tiles lend warmth and subtle color to this kitchen. *Write in No. 500*

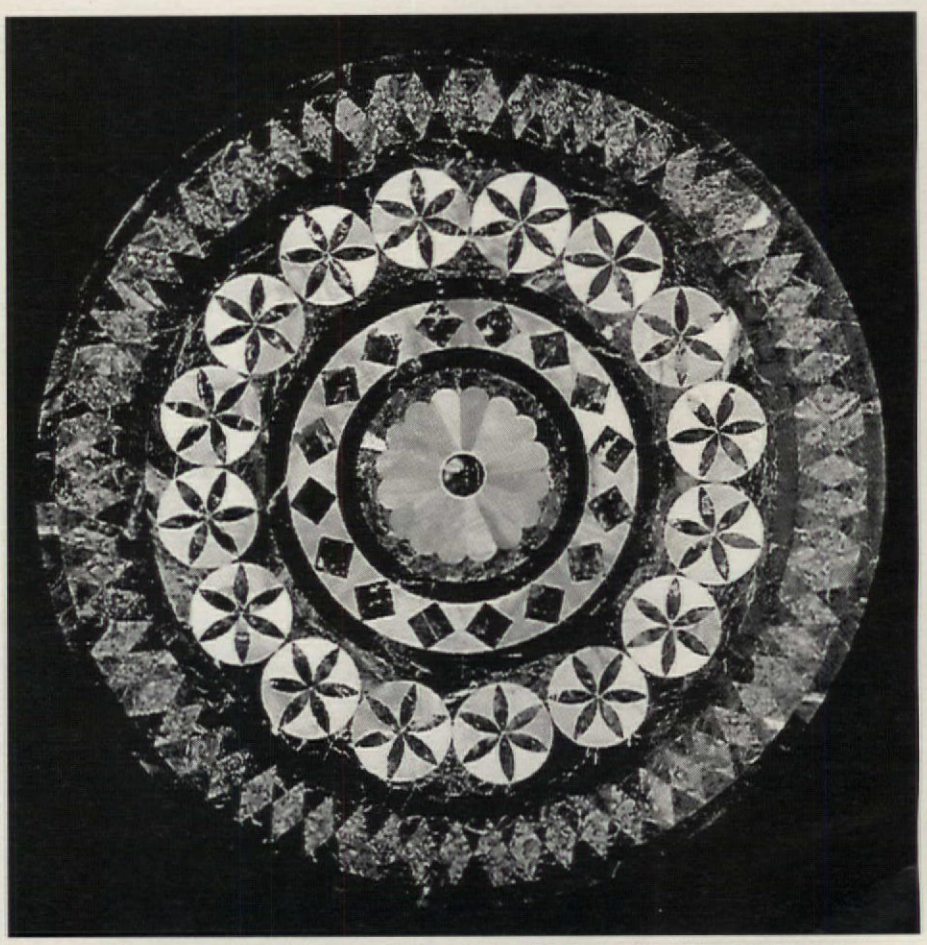
This geometric and encaustic tile flooring from H&R JOHNSON replicates the 19th-century original in the floor of the Philadelphia Academy of Fine Arts. *Write in No. 8550*

CHARLES TILES offers flooring in polished and tumbled marble, quarry and terra-cotta tiles, granite, and limestone. *Write in No. 549*



This mosaic floor insert from TERRA DESIGNS measures 36 in. x 36 in. and includes an inset frame of terra cotta. *Write in No. 2790*

DESIGNS IN TILE supplied the colorful geometric tile used in the lobby of the Hotel Jerome in Aspen, Colo. (seen here from the overhead atrium). *Write in No. 250*



This dazzling, hand-crafted floor medallion from ANCIENT VENETIAN FLOOR COMPANY uses marble and semi-precious stones and measures 4 ft. in diameter. *Write in No. 99*

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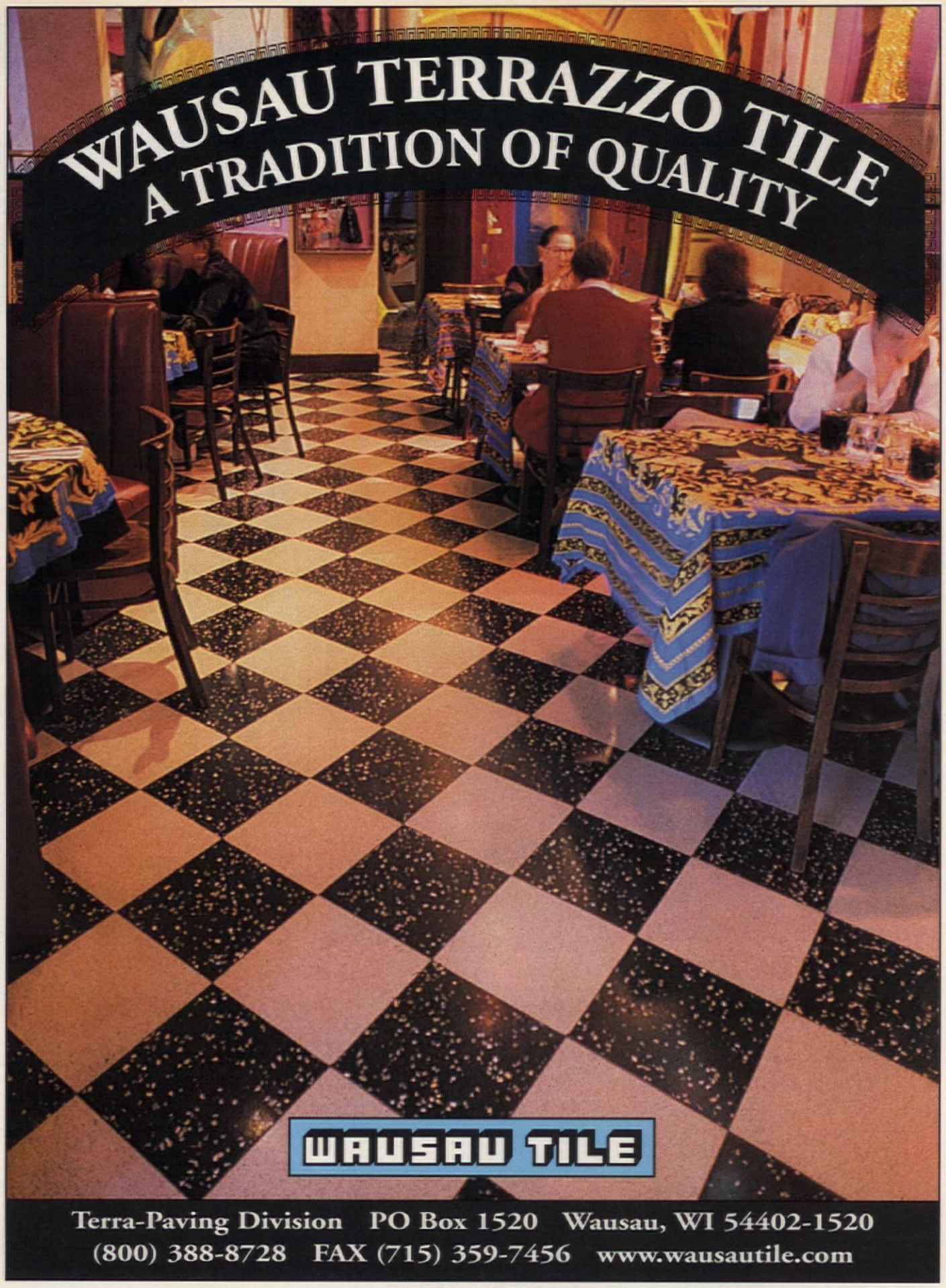

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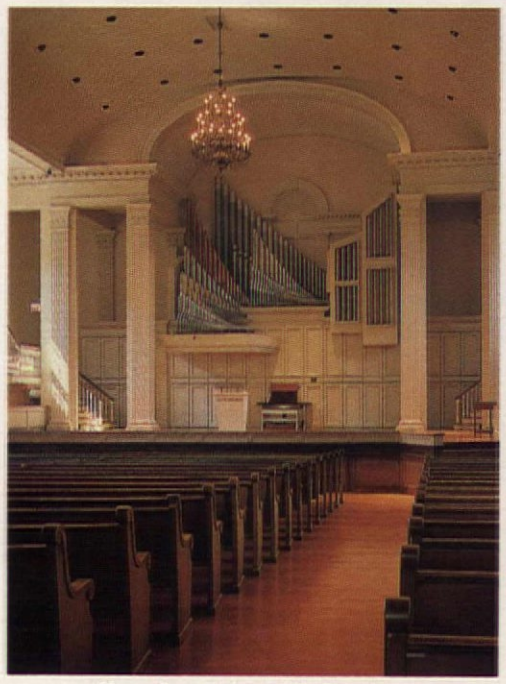

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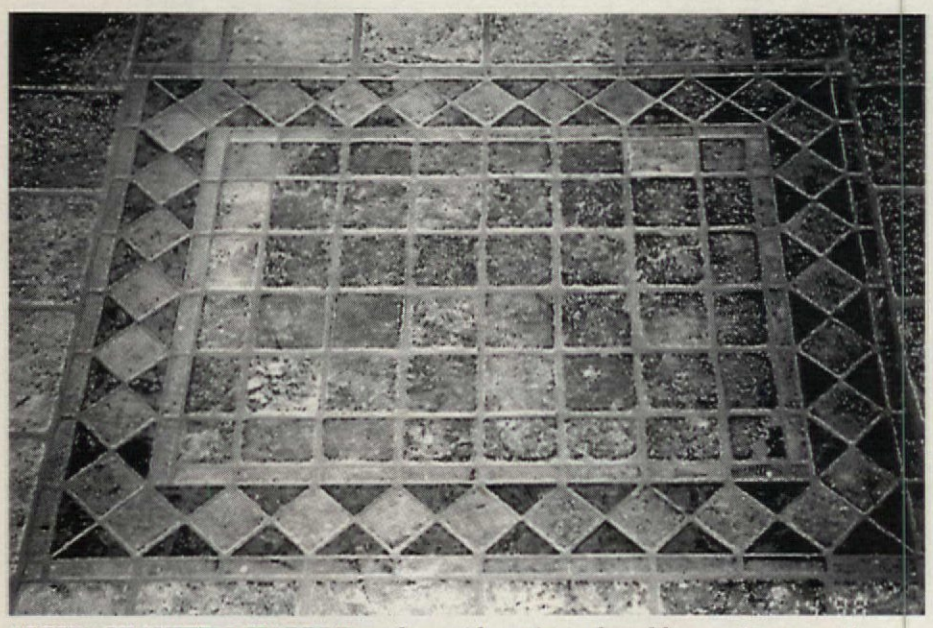

ALPHA GRANITE & MARBLE stocks a wide variety of marble, granite, travertine, tumblestone, and limestone, in both tile and slab formats.

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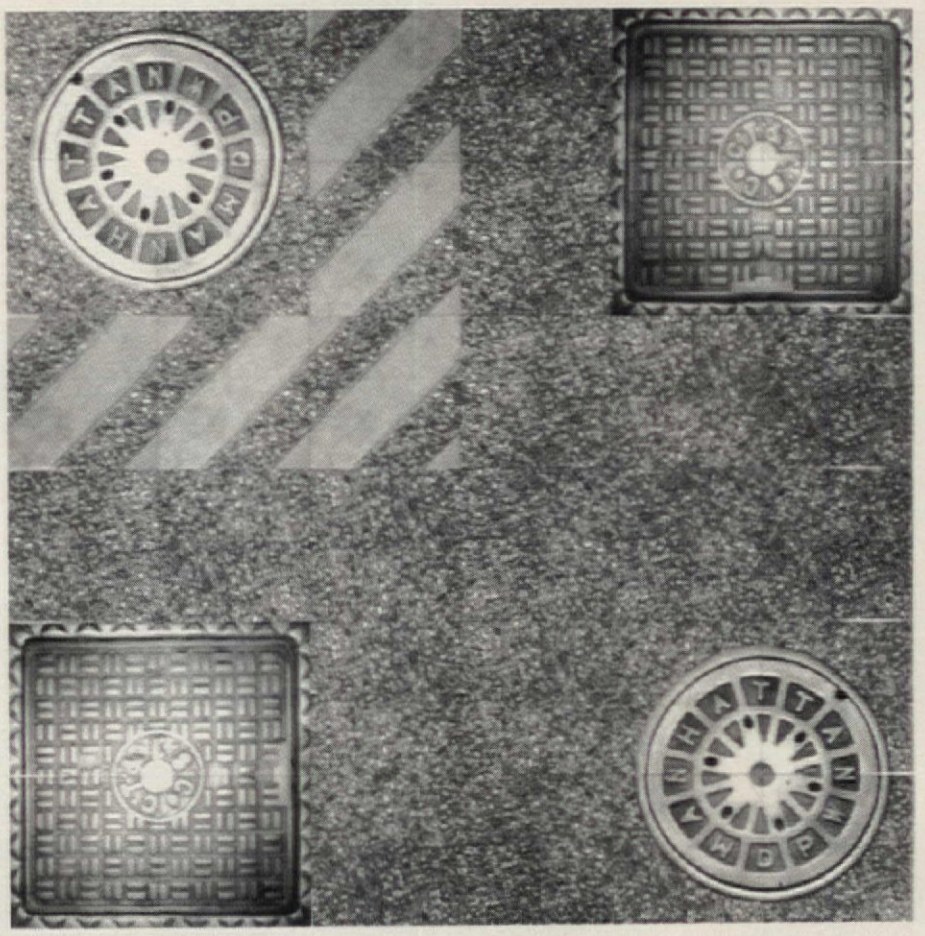
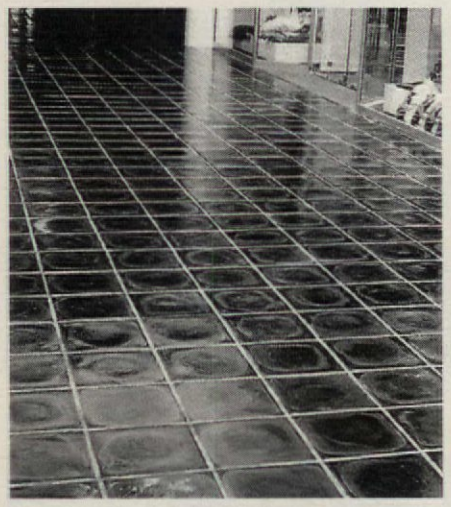


IMAGINE TILE's "Street Smarts" durable glass-tile design series offers a clever take on that most familiar of urban underfoot utilities: manhole covers and asphalt.



Flooring from DECORATIVE CAST BASALT contains shades of blue, green, red, and gold, enabling it to match the color design of almost any interior. *Write in No. 691*

NATIVE TILE AND CERAMICS offers a range of work in handmade decorative tile, including a whimsical series of tile "rugs." *Write in No. 570*

FISHMAN MOSAICS' "Swimmer" is a floor medallion that would be equally appropriate as a piece of wall art. *Write in No. 183*

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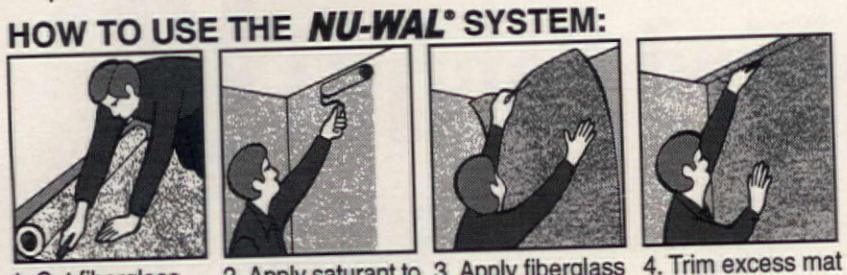

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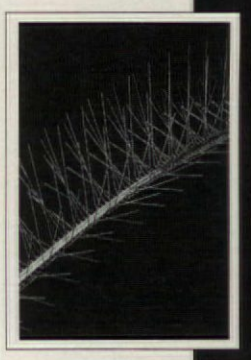

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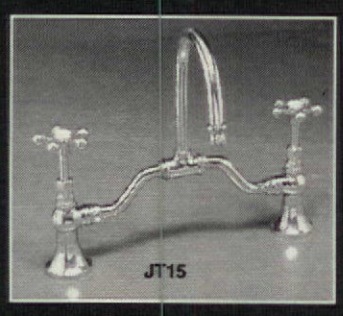

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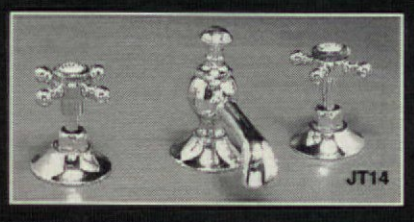

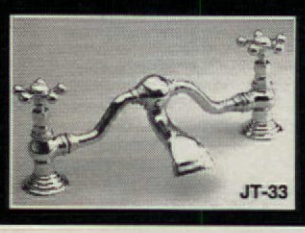

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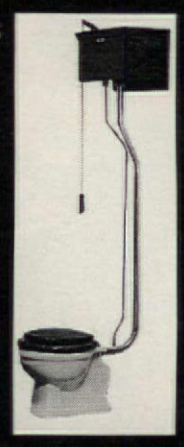

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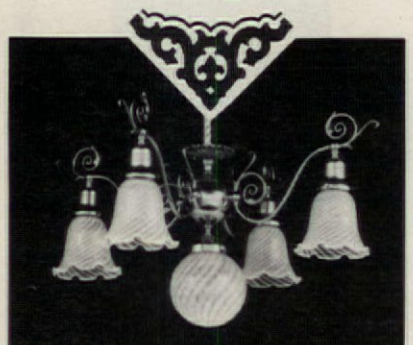

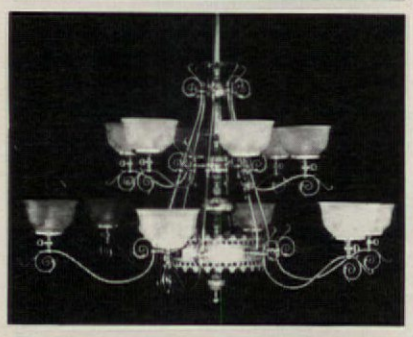

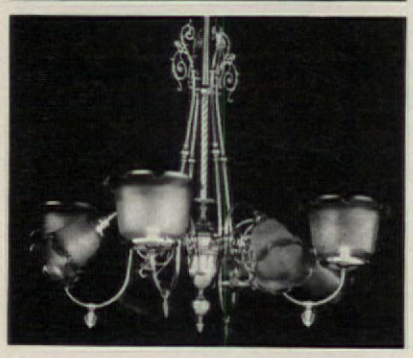

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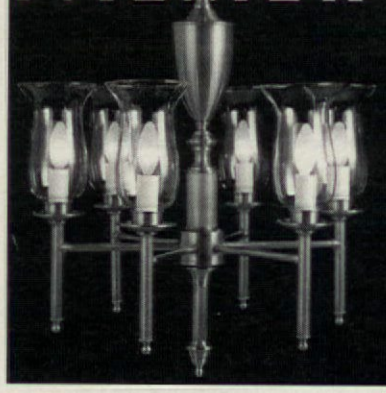

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A new biography of James Bogardus shows how his invention of modular construction paved the way for modernist architecture. Ironically, Bogardus himself used his modular system for classically inspired buildings.

***Cast-Iron Architecture In America: The Significance Of James Bogardus,* by Margot Gayle and Carol Gayle N.Y.: W.W. Norton & Company, 212-354-5500 272 pages; hardbound; $39.50; ISBN 0-393-73015-8**

Reviewed by Everett H. Ortner

It was whilst in Italy, contemplating there the rich architectural designs of antiquity, that Mr. Bogardus first conceived the idea of emulating them in modern times, by the aid of cast iron. This was in the year 1840, and, during his subsequent travels in Europe, he held it constantly in view; and cherished it the more carefully, as he became convinced, by inquiry and personal observation, not only that the idea was original with himself, but that he might thereby become the means of greatly adding to our national wealth.

Sixteen years later, in a pamphlet written with the help of his assistant John Thomson, James Bogardus could well look back in wonder at how successfully he had turned a vision into reality and at the architectural revolution he had begun: the creation of a building system that used iron as its central material, and the factory fabrication, in cast iron, of duplicate, self-supporting facade elements, in almost any design style — the forerunner of the curtain-wall International style.

"As an influence on my own design work Bogardus looms larger, let us say, even than Louis Sullivan," the architect Philip Johnson writes in an introduction to a fine new book, *Cast-Iron Architecture in America: The Significance of James Bogardus* by Margot Gayle and Carol Gayle. "Even Richardson, a greater architect, was not such an ancestor of mine as James Bogardus," Johnson continues. "It is, fortunately, easy to say why. With his cast-iron facades, he acquainted Americans with modular rhythm, which is the basis of modern design. Imagine Mies without a module. Imagine Le Corbusier without the basic freedom of evenly spaced windows."

Other than having watched Robert Fulton's steam-powered Clermont pass on the Hudson River, Bogardus was far removed from the new technologies of his day. Born in 1800 in the agricultural town of Catskill, N.Y., James left school at the age of 14, as was the custom, to become an apprentice. "Having shown great taste for mechanics," he was placed by his father with a local watchmaker, where, according to an article in the *Catskill Daily Mail*, "by close application he soon became skilled in watch work and working in gold and silver, and also made himself acquainted with dye sinking, engraving in wood, steel, and other metals."

By the age of 23, Bogardus was a fully fledged professional, having worked in both Savannah, Ga., as a journeyman watchmaker and back in Catskill in his own business. At 28 he was at an inventors' fair run by the American Institute of New York City, exhibiting a "three-wheeled chronometer clock" that worked on an unusual principle. The clock won first prize and launched Bogardus on what was to be his lifetime profession: inventing. In the decades from 1830 to 1850 he received 13 U.S. patents and one British patent for clocks, spinning machinery, and devices for pressing glass, for cutting or working with rubber, and for separating gold from silver.

Bogardus visited England and Italy in 1840, and as a result of his European experiences the two seminal influences on his life came together: the classical architecture of Italy and the widespread use of iron in Britain in the construction of bridges, aqueducts, and railway facilities.

Iron as a building material was not unknown in America, particularly in the form of columns for framing mills and factories or for shopfront display windows. But it was the use of cast iron in fireproof construction that aroused the most interest — especially in New York City, which had suffered a number of major conflagrations, particularly in 1835 and 1845. To that protective advantage Bogardus added his enthusiasm for the use of iron in modular construction. In an article published in 1849 he wrote:

"These [iron] buildings will sustain a greater weight, and are put up with less inconvenience than brick buildings, being cast and fit so that each piece may be put up as fast as it is brought on the ground. They may be taken down, removed and put up again in a short time, like any other casting. [...] They admit more light, for the iron columns will sustain the weight that would require a wide brick wall in ordinary buildings."

In 1848, having secured financing, Bogardus began to build his own cast-iron factory — but stopped work to erect a cast-iron facade on the Millau Pharmacy building, a narrow five-story structure on lower Broadway. It offered an extraordinary display of ornamentation: attached fluted Tuscan columns topped by Medusa heads, recessed panels beneath the windows with starburst designs, etc. But it also offered across its 20-ft. width four huge windows, almost from floor to ceiling, made possible by the strength of its slender supporting cast-iron columns.

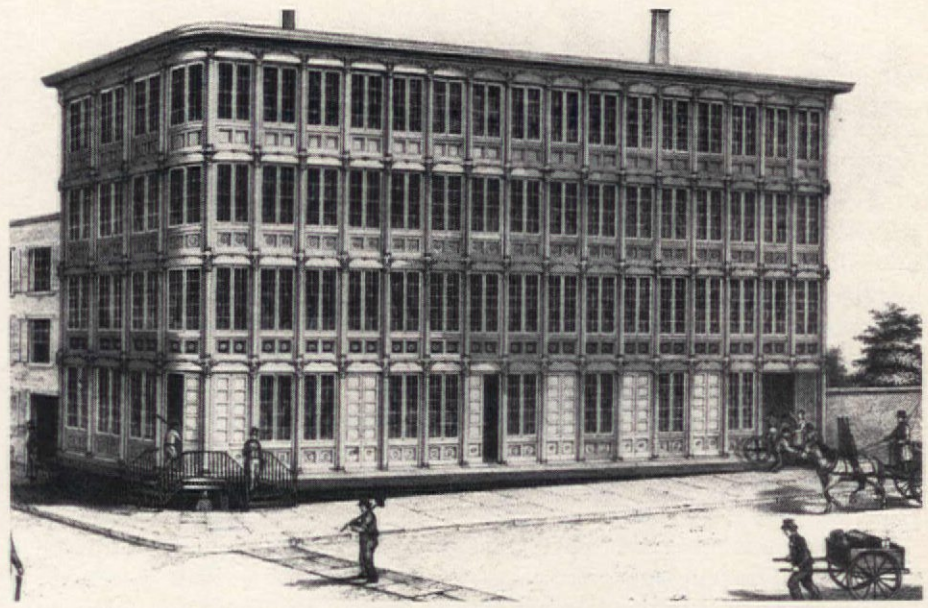
In 1849 Bogardus completed his factory, which he called "the first complete cast-iron edifice ever erected in America, or the world." It consisted of four stories, each lighted by 20 windows, and a basement. It was made entirely of iron: walls, floors, interior columns, even the roof. And of course it was heavily ornamented with classical motifs.

In 1850, Bogardus applied for a patent on what he claimed as his invention of a "building system." Basically, this consisted of beams cast with flanges, plus columns, pilasters or posts, also cast with flanges, all provided with bolt holes through which the parts could be combined. "In this way," said Bogardus, "one story may be erected on another, and, when thus put together, each side of the house or structure constitutes a frame, and when the four sides are united all these frames brace each other, and make a strong and light structure."

Floor beams were cast level on top, with the underside arched — the so-called bow-string girders. Flooring members had tongues and grooves made by riveting strips of metal to the plates. Roof plates overlapped to keep out water. Bolted-on ornamental details, also of cast iron, not only added aesthetic interest but covered connections where iron beams met, keeping out rainwater.

But, as authors Gayle and Gayle point out, the patent inadequately represented what Bogardus had achieved. "He had brought together a variety of methods, none in itself unique, into a whole that was new. He created self-supporting facades that simulated the carved stone of classical architectural forms, with their repeating designs — all in cast iron." He had created a truly modular system. In the course of this, also, he had introduced to the United States the light but strong open beam — the now universal I-beam.

And he created an industry. Cast-iron facades became popular and began to appear throughout lower Manhattan. Building owners could have the class of classical forms without the expense of stone carvers. There was the further assurance of fire-safety.



Bogardus's own all-iron factory (facade plus internal structural elements) on Duane and Centre Streets in New York City, erected in 1849, show here in the lithograph executed by James Ackerman ca. 1850. Titled "The First Cast Iron House Erected," it was used by Bogardus for promotional purposes. (Museum of the City of New York; reproduced from "Cast-Iron Architecture In America")

Bogardus's first large building was for the Baltimore Sun. At that time, 1849, he had erected only two cast-iron facades and his own small iron-framed factory. The Sun building was, by comparison, a monster: five stories and 70 feet high, occupying 74 feet by 56 feet on a corner lot. It was a challenge. The building was framed entirely in iron, consisting of numerous columns on each floor supporting cast-iron beams. There were 105 windows. Pedestals at the second level were ornamented with cast-iron medallions with portraits of George Washington and Benjamin Franklin. At the top (fifth) floor, a row of 23 4-ft.-tall standing figures, all in classical garb, depicted Washington, Jefferson, Franklin, and other worthies.. The building was painted a metallic bronze.

By 1851, Bogardus had 70 men working in his cast-iron factory, finishing and preparing parts for shipping. In Washington, D.C., that year he completed an iron front for the Adams Express Company, another for a commercial building known as Iron Hall, and a third for a warehouse. Perhaps while he was still at work on the warehouse, on Christmas Eve, 1851, fire struck a room in the Capitol that housed the Library of Congress and did great damage. In rebuilding the section, it was decided to fireproof it, and Bogardus got the job: three tiers of iron galleries, bookshelves, and floors.

As his fame spread, Bogardus also erected four buildings in Chicago, one in Albany, a warehouse in Havana, Cuba, the Iron Clad Building (still standing) in Cooperstown, N.Y., and perhaps more.

A small scattering of Bogardus buildings remain standing in New York City: the Bruce Building at 254 Canal Street, and others, nameless, at 75 Murray Street, 85 Leonard Street, and 63 Nassau Street. But more important than the structures in which he was personally involved was his vision of cast iron: capable of assuming virtually any form and of being assembled and disassembled with ease; fireproof; structurally of enormous strength; almost indestructible. In that sense, all of the hundreds of cast-iron buildings remaining from that age, now almost a century and a half past, are Bogardus buildings. Long may they stand!

The co-authors of this work, Margot Gayle and her daughter Carol, have done a superb job in piecing together what is known of the life and works of James Bogardus. Margot, patron saint of cast-iron preservation, is the founder and president of the Friends of Cast Iron, author of many articles and books on the subject, and a great and distinguished woman. In her spare time, some 30 years ago, she also founded the Victorian Society in America. Among her many preservation credits are the Sun clock on New York's Chambers Street and the Jefferson Market Court House, now a public library. Carol Gayle, the junior member of the team, is a professional historian. ■

Everett H. Ortner, retired Editor of Popular Science magazine, is an active preservationist. Since he and his wife bought an 1886 brownstone rowhouse in Brooklyn's Park Slope area in 1963, he has been a leader in the battle to save those magnificent Victorian houses and their communities. He was one of the founders in 1968 of the Brownstone Revival Committee of New York (since rechristened the Brownstone Revival Coalition), and is now its Chairman. For information about the BRC, or for a copy of its newsletter, write to the Brownstone Revival Coalition, P.O. Box 577, New York, NY 10113.

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ENLARGING THE GARDEN THROUGH DESIGN

A small garden plot does not have to mean a small garden. Below, a garden designer uses six of his projects to illustrate how imaginative design can create the illusion of space.

by Keith Davitt

"Is there enough room for this?" is the question that usually follows the expressions of appreciation and wonder when I deliver the conceptual landscape plan to a client. What I have designed usually looks too elaborate, as if it contains too much and leaves more room than is there already. They love it (usually and not always), but "How can it possibly fit?" They want to know.

Certainly, looking out on these little Brooklyn brownstone backyards you are not struck by a sense of spaciousness. Indeed, small urban plots often seem so confined, many owners doubt if anything can be done at all. The areas are badly organized, they are filled with objectionable elements and views, and it simply doesn't seem possible that anything really beautiful and enjoyable could occupy such an unpromising space. Are my plans illusion then? Will this all fit? Is there room on these little urban lots for what I have designed? After 20 years of building gardens for small city properties and restricted suburban sites, of knowing my clients through time and living with the results, I can emphatically say, "Yes."

The illusion is not in the spaciousness my plans seem to imply but in the restrictions the undeveloped, undesigned properties impose. They were actually made that way and they can actually be made very differently. They can offer an astonishing variety of visual delights and experiential pleasures. Over the years, I have come to understand some of the principles involved in creating spaciousness where space is limited. Here I would like to share some of what I have gained in that wonderfully challenging and intriguing pursuit. Because if you own a small city yard or tiny plot of ground or have a client that does and you would like to see it become a beautiful garden, chances are you are only a few simple principles away from fulfilling that wish.

Division of Space

The commonest flaw giving rise to the greatest degree of spatial restrictions, perceived and experienced, is in the division of space. I won't say the poor division of space, because it often happens that an area was laid out for some particular function which it serves faithfully but is no longer applicable. For instance, the greater number of undeveloped rear yards in my brownstone community were originally laid out for vegetable gardening. In these, there is a paved walkway around a central growing area with raised, narrow beds up the sides and along the back. This arrangement, while permitting the cultivation of a great many plants in a small area, makes the entire plot seem about half its actual size and allows for no activities other than gardening.

These areas seem so restricting because the accessible areas — those places into which one, if not exactly invited, is at least permitted to occupy — are so small. We do not feel welcome. We perceive, though the space may be 40 ft. x 20 ft., there is no accommodation made for normal human activities other than tending plants. There is no outdoor living to be had here, and so we don't want to be here.

This first garden **(Project I)** is a case in point. Originally laid out as just defined, paving had subsequently been placed in the center garden area, permitting at least some access and use. But the side and particularly rear beds encroached on the usable area. They were made too small to invite use, and the area they left in the middle also seemed cramped. Restrictive and uninviting was the result of this division of space.

I. BEFORE: A garden space is made unattractive and restrictive through poor division and straight lines.

Quality of Line

As the division of space is critical, so too is the line those divisions define. The shortest distance between two points is a straight line — visually as well as physically. When, in a small space, all is linear, as in this example, we see everything at once. Our eye doesn't traverse the entire length of a line but goes immediately to its termination and takes no joy in the journey. In fact, it doesn't even seem to have made one. The environment is static and the space seems dimensionless.

To alleviate these misfortunes, and to get deeper into the garden and away from the building, I carved out a curving terrace retained by a low, mortarless stone wall. In so doing, I actually took more living area from the middle than was previously the case, but by opening and extending into the back, by terracing and thus providing another horizontal plane, and by providing a curving line the eye will invariably follow, the area now conveys a greater sense and experience of space. But still more was possible.

I. AFTER: Terracing with a curved wall, use of water, and richness of planting create a garden that invites use.

Elements of Interest

The more elements of interest a garden contains (provided they are harmonious), the more variety of satisfying experiences the garden visitor is provided, thus abolishing an apprehension of limits. It is, however, important that these elements all relate well to each other. Too much unrelated diversity strikes the eye as clutter — and is constricting; so is too much openness with no elements to which the visitor can relate. You can stand in a desert and feel very restricted, whereas well integrated, interesting elements stimulate, expand the experience, and enlarge the sense of space. You can stand in a small, well-made garden and feel it to be unending, so long as there is a rich tapestry of plants in appealing combination, rocks in pleasing groupings, a variety of planes the eye can traverse, or other elements which attract and please.

Water gardens are superb for this and many of my gardens contain them. They don't merely add additional dimensions, they add another world. They provide wonderful textural elements, the motion and sound of water, the grace of swimming fish. They can add tremendously to the enjoyment and interest of a garden, making it feel larger by its contributions. The little pool here is an integral component of the landscape, bringing to it a quality of life and even —

with its little waterfall, flora, and beautiful Koi — a sense of adventure.

Providing Experience through Plant Combinations

Plants can also be used to enlarge the garden, and this aspect of garden making I feel should be given more attention. Too often, plants are combined with no perceptible relationship to one another. Any two given plants either visibly relate to one another, through harmony or contrast or both, or they do not. If they do not — if there is no obvious relationship of form, color, or texture — then they should not be placed together.

In my gardens I try for combinations in which the plants provide both subtle and strong harmonies and contrasts. For example, Hydrangea macrophylla Mariesi, with its bold rounded shape and large variegated leaf, contrasts wonderfully with the blades of variegated Iris while harmonizing in leaf color. This sets up a dynamic relationship — an interaction between the plants which is palpable. It is no longer a still-life; it is an event, ever ongoing. This theme of a particular sort of harmony/contrast relationship can be carried several dimensions further and into smaller and larger scales, with, for example, a variegated Berberis and variegated Liriope, even down into very small-leaved ground covers, such as variegated Euonymus and Thyme.

I might segue such a grouping into a dark, glossy leaved Ilex, creating a wonderful foliar contrast, then pick up the variegation theme with a Cornus sericia, while echoing the Ilex in the low-growing glossy dark-leaved Gaultheria procumbens. The repetition of an element or of a harmony or contrast throughout a garden gives it that all-important quality, unity, and this too, helps create a sense of extended space, while meaningful combinations enrich and enliven.

Creating Rooms Creates Room

This next garden area **(Project II)** was absolutely devoid of anything: an empty, linear and completely static rectangle that looked small and suggested little to the owners.

Very often a small rectangle can be enlarged through division. In this case, I intercepted the long axis just past the midpoint. I further enhanced the sense of separation by dropping the rear garden several inches below the front garden. This created two distinct garden rooms, greatly enhancing the sense of space and of possibilities.

II. BEFORE: The typical urban space before design. "Can anything be done here?"

It is interesting to note that a structure which separates, such as an arbor, a bridge, even a door, also joins. Thus this arbor both divides the two areas and unites them, creating a sense of separation and of continuance, and contributes to the apprehension of variety and opportunity. It partially closes off from view areas of the rear garden, thus inviting visitors onward and allowing them to explore and discover. (This quality will be considerably enhanced as the yellow and white roses cover the arbor.) The garden is revealed only as they move through it and nothing does more to generate a sense of endless possibilities — and consequently a sense of spaciousness — than the gradual unfolding of a garden.

II. AFTER: Two "rooms" transform the rectangle into a garden of many possibilities.

The Beauty of Discovery

In my own 32-ft.-x-22-ft. garden **(Project III)**, I achieved this effect by diverting the path out to the patio around a just-glimpsed pond and between two planting areas. Thus, when a visitor first steps out the door, he can catch a glimpse of water and areas beyond the pond and dogwood, but only as he follows the path out does the garden open up to him. Once out on the patio, he is enveloped in the garden and is provided with a variety of views and outdoor-living possibilities. There is a stone barbeque, a table and chairs, a clearly visible pond, rich and luxurious plantings, and neighboring trees that become part of the garden experience, expanding it beyond its limits. All this completely removes any sense of confinement. Indeed, many a suburban sprawl is less inviting and holds fewer possibilities than this small garden.

III. BEFORE: A completely revealed garden space lacks interest.

III. AFTER: Re-designed, the garden unfolds as the visitor moves from one area to another, creating a sense of discovery and of spaciousness.

The Value of Motion

This next garden area **(Project IV)** was a violation of nearly every principle for spacious design. It was overhung and encroached on by neighboring plants. The space was poorly divided, with three unusable terraces. It was linear, uninteresting, cluttered, closed, and completely static. It invited one to leave.

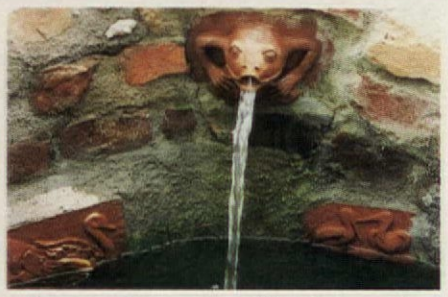
To remedy this I leveled the area and removed all objectionable items that I could. To get away from the boxiness of the place and to create motion, softness, fun, and interest (and to bring pleasure to the two little girls living there), I laid out serpentine walls, inlaid with shells and handmade tiles bearing various animals in bas relief, and I gave the walls a rolling top.

Proportion

Proper proportion is a very important principle in design, especially in small spaces, which are very unforgiving of spatial errors. Vertical elements, in this case, the serpentine brick walls, placed too far from the outer boundary, encroach too much on the interior spaces and dominate them. Placed too near the boundary, the surface area is too large in proportion to the garden area. Not only does the entire space become too hard, but the garden area is

continued on following page

IV. Top photo, BEFORE: Violating all principles of spacious design, this site is poorly divided, static, and overgrown. Bottom photo, AFTER: Leveling and creating a raised bed open the garden. The lattice fence (soon to be filled with flowering vines) provides a barrier without a sense of enclosure.



IV, continued: Top photo: Curving lines bring softness and romance while plants and handmade tiles add interest, proving that small spaces created within the garden enlarge and invite. Above, details of two tiles: fish, and frog and swan with signets and two pelicans were made by McKannay Studios *(contact them through the author)*.

also seen as small and confined, and we feel that confinement. At the same time, practicality must be served. I might have made the terraced planting areas a little larger but for want of usable space. However, the vertical and horizontal undulation of the walls as they rise, fall, and wind around does much to enlarge, soften, and relax the space. Once grown, the plants will obliterate the fence lines and the whole environment will be curvy, soft, and completely inviting.

Space Within Space

Slightly separated spaces within a small garden area also contribute to a sense of expansion. The extreme curve of the wall in the upper right of the garden and the seating area behind the fountain make the entire garden seem much roomier by providing somewhat remote yet accessible areas within the main site. Even with no further elaboration, this garden now seems larger than it ever did before. The overall impact is that it is a large (by our urban standards), usable, and inviting environment. But it doesn't stop here.

Details Add Dimension

As mentioned, experiences in the garden contribute to the sense of limitlessness and expansion. When the visitor's eye first follows these curvy walls, something reaches out to him, catches his attention. It is the handmade animal tiles and the tiles bearing in relief the names of the family members. Placed randomly along the wall at different elevations, the eye is invited to explore, discover, and enjoy these one-of-a-kind works of art. How many are there? Where is the next one? Which animal will it be? Being exquisitely made and thoroughly charming, these tiles retain their interest over time. This quality of attention elicited from the viewer defeats the threat of ennui often associated with small areas.

A Garden of Many Principles

V. BEFORE: A large space is made small by poor division and encroaching planting beds.

This 84-ft.-x-24-ft. garden **(Project V)** occupies a huge area by urban standards. But it certainly didn't seem large before being redesigned. The division of space was particularly unfortunate. Two cedar trees segmented the long axis, creating a cramped patio area near the house and a larger area beyond. The larger open area was of reasonable length but a poorly erected retaining wall encroached on both the house on one side and an unclipped hemlock hedge on the other. For years this remained an undeveloped, fairly unusable, and altogether unattractive garden environment.

The cedars, simply because of their placement, had to go. This opened up the long axis, but to widen the garden, I removed the stacked wall and rebuilt it closer to the house, thereby gaining two feet of width. Not wanting to get into the expense of removing the hemlock hedge (as the roots would all have to be

continued on page 172

V. AFTER. Top to bottom: 1) Bluestone paving and water garden invite the visitor into the garden. A new dry-laid stone wall built closer to the house gives more room while providing ample planting area. 2) Seen through the arbor (soon to be covered with roses), the second area and water garden in the distance draw the visitor onward. 3) The use of a few mature plants prevents this garden from appearing newly made. 4) Each garden "room" naturally flows into the adjoining areas, creating a sense of infinite

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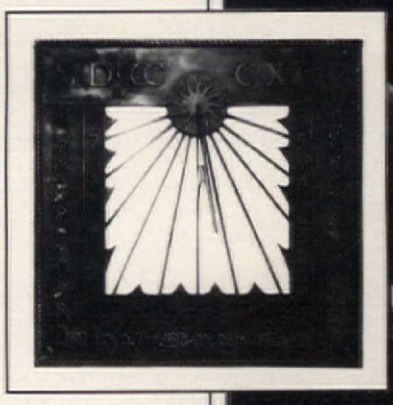

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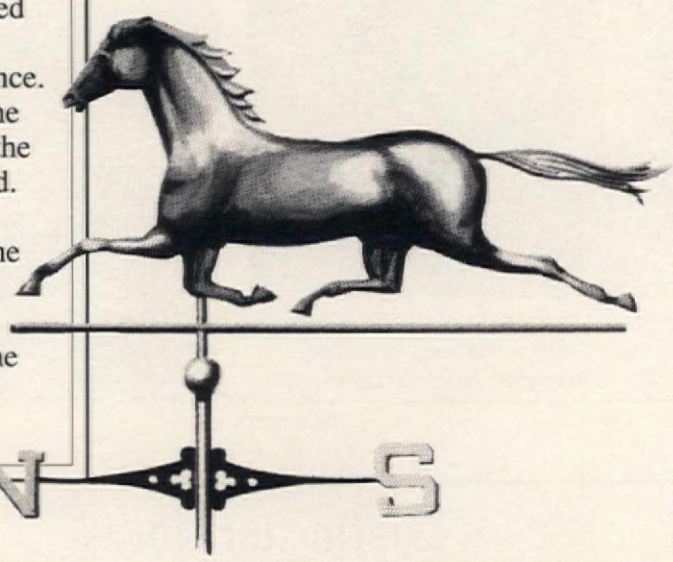

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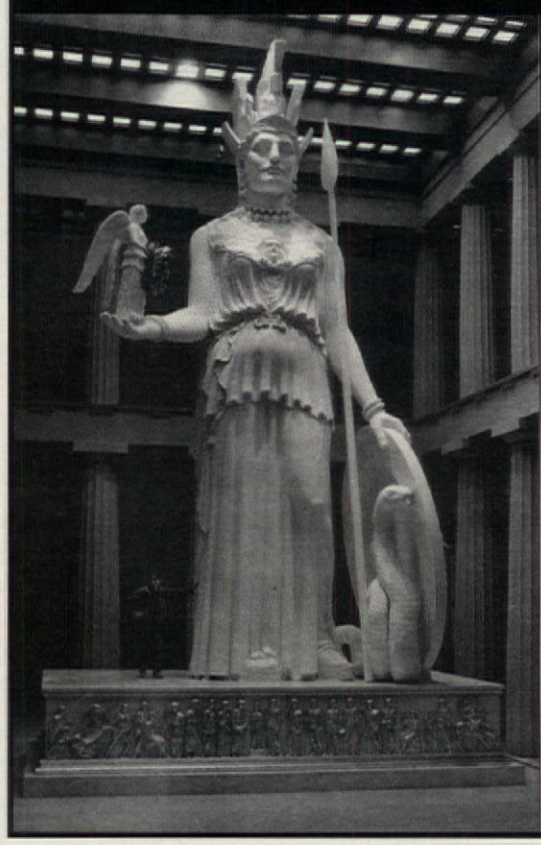

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LeQuire works in virtually all sculptural materials, both direct carving and casting in his own foundry. He has completed a number of architectural, collaborative and site-specific projects since he began accepting commissions in 1981.

*Left: **Athena Parthenos**, 1990, The Parthenon, Nashville, fiberglass-reinforced gypsum, 42'H*

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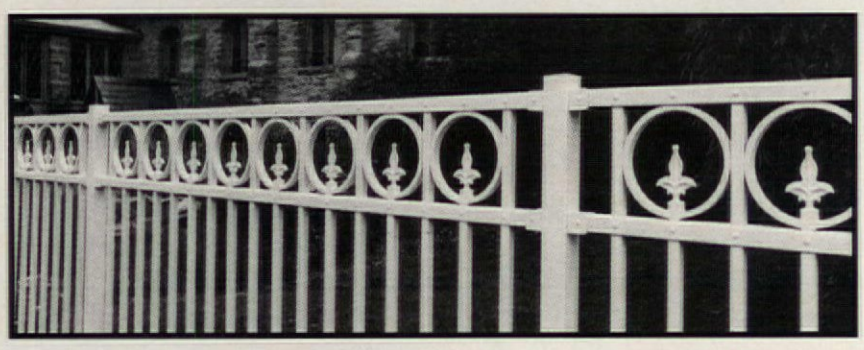

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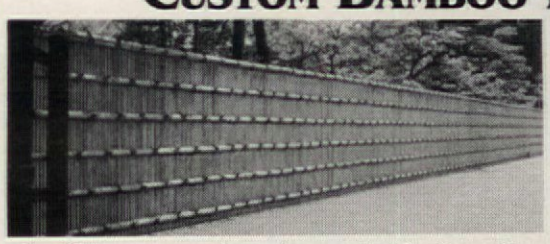

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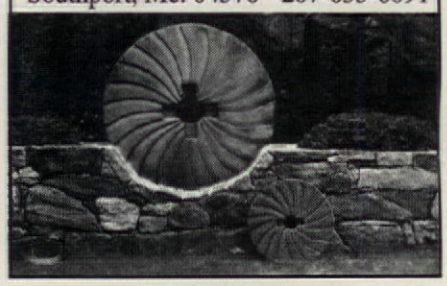

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WRITE IN NO. 1210

UNIFIED DESIGN

This high-end residential project demonstrates the value of a landscape architect's input in the initial design stages. Here, early collaboration with the architect and client allowed for sensitive siting of the buildings, resulting in a remarkably unified design, where the landscape complements the traditional stone and clapboard house in style and feeling.

PROJECT: RESIDENTIAL LANDSCAPE
PROJECT LOCATION: GREENWICH, CT
DESIGN FIRM: ANNE LACOUTURE PENNIMAN, GEORGE W. PENNIMAN, ARCHITECTS

The role of the landscape architect included full-service design and site planning for a new single-family house with detached-garage apartment. Following the master-planning phase, services included production of a complete set of working drawings (grading, layout, detailing of site masonry and fences, and planting plans), construction observation, and follow-up services.

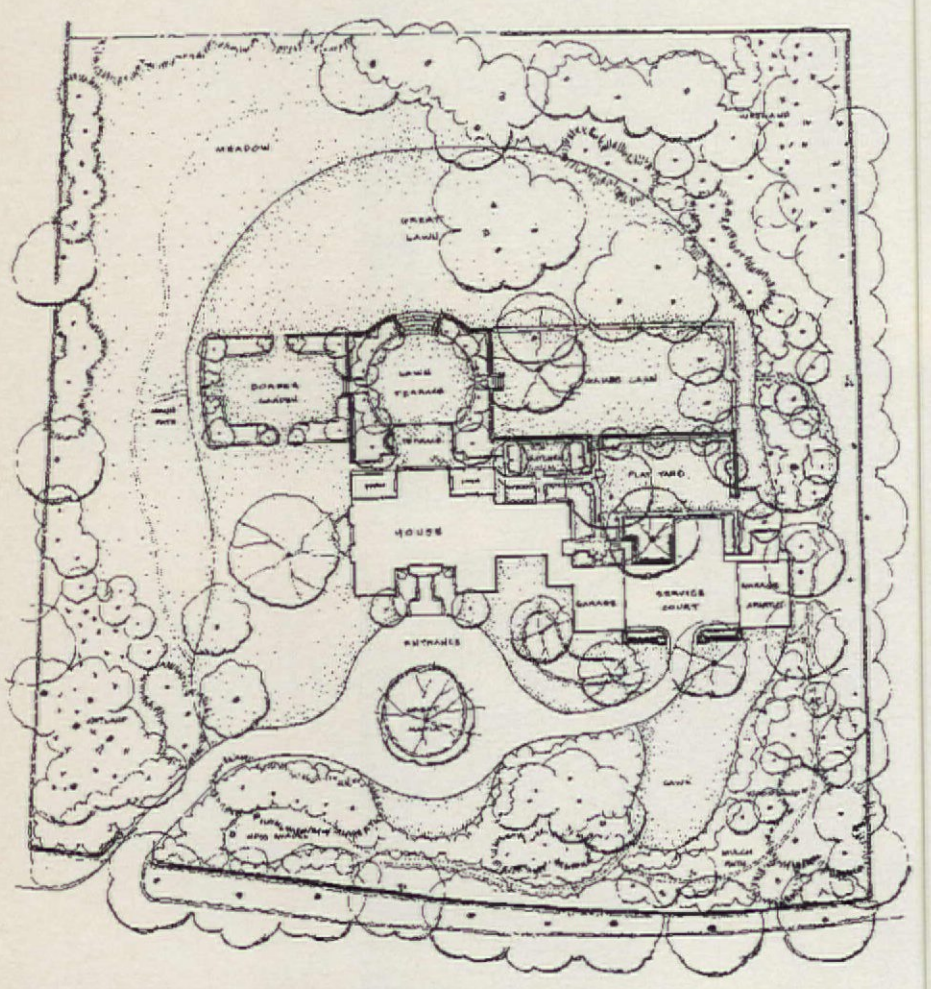
The character of the site (a three-acre, gently sloping parcel on a major artery in Greenwich) was one of the main inspirations for the design. The site had two distinct halves, with the south and west wooded, and a more open, old-field character to the north. The landscape architect's goal was to retain and enhance this dual character and create a graceful transition between the two. Thus was born the concept of the wooded hillside (making a visual screen from the road) and the open wildflower meadow, with the central house/lawn precinct mediating between the two areas. Respecting existing trees and the two vestigial wetlands on the site provided additional opportunities to express the "nature" of the site, the *genius loci*.

A series of garden rooms defined by walls, hedges, and fences provides depth and complexity within a formal spatial framework and responds to the varied space requirements of the family. Stone terraces for seating and entertaining, a fenced garden, a lawn terrace, children's play yard, games yard, kitchen garden, and service court complete the house precinct, transitioning to the less-formal great lawn and meadow areas and the natural borders of wetland and vestigial woodland. The garden rooms step in elevation, echoing the existing slope, allowing the large house to relate to the site and sit gracefully within its lot. The predominantly native plantings provide seasonal color, with additional fall and winter interest in the border garden. The varied on-site environments are linked by a system of mown paths in the meadow and mulched paths through the wooded areas.

Careful detailing of masonry and fences and the choice of materials consistent with the house design give a sense of permanence and maturity to the project, which belies its recent (Spring 1996) completion. In addition to addressing the client's aesthetic and spatial needs, the design incorporated elements to mitigate traffic noise — a high stone wall along the road, and a trickle fountain in the terrace area.

Elements to simplify maintenance were incorporated into the design: mowing strips along the foundation, fence, and retaining walls, ground cover areas around trees, and the use of easy-care shrubs and trees. The perimeter plantings, heavily mulched and underplanted with native shade-tolerant perennials, are evolving into a balanced self-mulching woodland ecosystem.

Throughout the project, ecological considerations drove many design decisions. A particular example is the area devoted to meadow planting, an unusual feature in the Greenwich landscape. The site drainage system discharges into a rock pool, with surrounding wetland plantings. The project was completed within a budget of approximately 15% of the house cost. ■



Boxwood Garden: Originally designed as a pool area in the master plan, this outdoor room features boxwood hedges that are punctuated by gleaming white gates axially placed to connect the steps and paths of the adjacent spaces.

Lawn steps at the back of the house: These steps, with stone risers and grass treads, are centered on the living room bay and spill graciously into the great lawn.

This space mediates between the family/service parking court, the garage, and the family entrance to the house. The warm tones of the hand-molded brick are accentuated by bluestone pavers and formal plantings — a welcoming entry with year-round structure and interest. *(All photos: Robert Benson)*

Border garden with a view to the house. This view provides a glimpse of the formal stone and brick terrace that is surrounded by stone seat walls. A retaining wall demarcates the upper level and stone steps descend into the lattice-surrounded garden planted symmetrically about the two axes with seasonally appropriate material.

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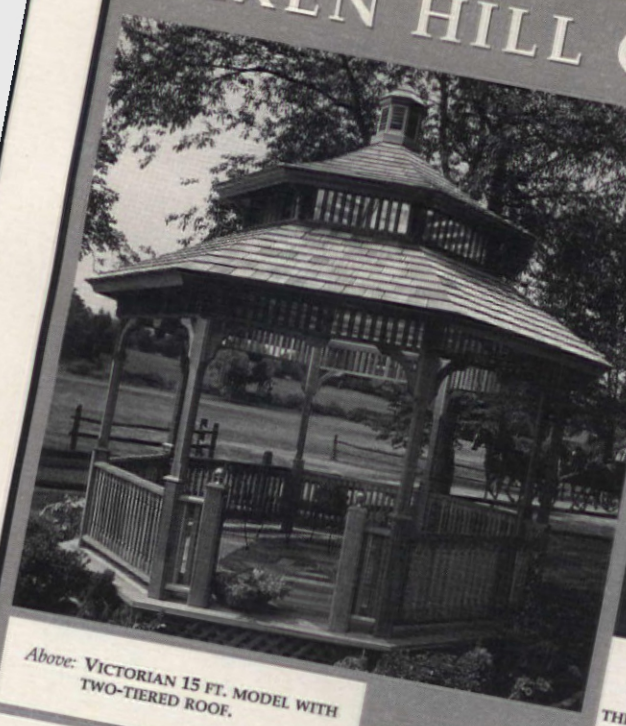
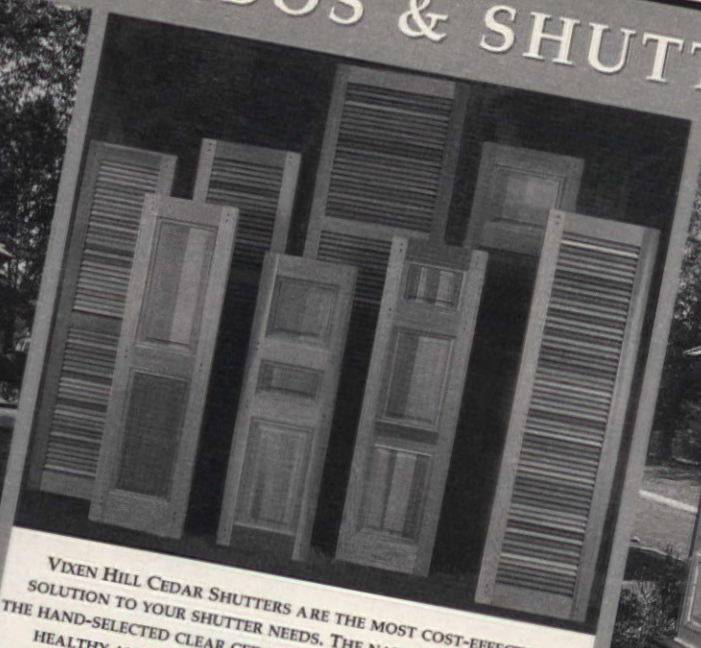


Above: VICTORIAN 15 FT. MODEL WITH TWO-TIERED ROOF.



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Above: GARDENHOUSE 15 FT. MODEL WITH SINGLE-TIERED ROOF.

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Left: GRAND PAVILION MODEL The central 30ft unit is specially designed to join with two 21ft units through walkways. The layout of the three units can be linear or angled depending on location requirements and desired appearance. Ideal for varied functions such as weddings, theatrics, orchestras and V.I.P. platforms, the Grand Pavilion can generate revenues and kindle community harmony. Modular components, fabricated of western red cedar for strength and durability, assembled quickly (approx. 160hrs).

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WRITE IN NO. 3870

CREATING CURB APPEAL: EFFECTIVE FRONT LANDSCAPES

First impressions always count. Choosing and siting appropriate trees, shrubs, flowers, lighting, and hardscape can make the difference between entryway landscapes and foundation plantings that draw compliments from your clients and passersby to those that are simply cookie-cutter quality.

by Nina A. Koziol

In the past two decades, the architecture of traditionally styled houses generally dictated the use of formal, symmetrical plantings. They often consisted of boxwood, spirea, barberry, arborvitae, yews, or junipers that were underplanted with periwinkle, ivy, or hosta. Once installed, a homeowner or landscaping service armed with power hedge trimmers could quickly shear these shrubs into fat evergreen meatballs. Dotting residential foundations and pathways, evergreens and rounded deciduous shrubs remain a ubiquitous look for both traditional and contemporary homes across the country. Landscape professionals and homeowners seeking to set themselves apart, however, are looking to semi-formal and informal plantings using mixed shrub and perennial borders and native plant material to enhance streetside landscapes.

Whether your clients desire a formal or informal setting, native prairie flowers or Japanese maples, consider the one landscape design credo that hasn't changed in the past 150 years — *a house is like a fine painting with the landscape as its frame.* Like a good frame, the landscape should not detract from or overwhelm the house but should enhance it. In this article, award-winning landscape designers in the Midwest share their ideas about producing residential landscapes with four-season performance.

Design Philosophy: The Holistic Approach

When tackling a new job, thoughtful landscape professionals carefully study the architectural style of the house before putting pen to paper. They meld the nuances of the architecture with the peculiarities of the site to create a landscape that meets their clients' needs and desires.

Landscape architect Jeff Korhan of Treemendous Landscape Co. suggests that landscape firms look beyond the usual one-size-fits-all designs tailored to any style house in any subdivision. In the Midwest, that look could be a honey locust or river birch, a row of globe arborvitae, a few spirea, a rhododendron or two, and a ribbon of river rock, which create an all-too-common visual medley, the equivalent of unseasoned meatloaf — it might be filling, but the taste just isn't there.

Abiding by unwritten landscape-design rules or formulas like the aforementioned is a recipe for boredom. "We don't believe there are any hard and fast rules. Intuitively you know that there are certain things you don't typically do," Korhan says. "If you're looking to create something dramatic, unusual, or special, you have to be willing to step outside of that box of rules."

Korhan says that although designers have to be careful, courtyards are good places to use water features. "Some say you shouldn't put a pond out front. However, the client ultimately dictates the rules. We might do a small pond that you wouldn't know was there. It might be covered with water plants and you don't see it from the street, but the client can look out and see it."

"We start with a client by forgetting budget and time constraints. We ask them to describe their vision. I try to get them to take me to the completed project in their own words," Korhan says. Following a site visit, Korhan and his staff sift through the client's comments and develop the concept designs, injecting his ideas as well. The clients then are invited to review the concept drawings.

The greatest challenge in designing an effective front residential landscape is dealing with the clients' desire to be noticed. What they like and what they think will draw praise and admiration often must be reconciled with the budget and available plant material. "We have to please the client; and to some extent the clients are not landscaping the front for themselves," says Korhan, "They typically landscape the front for other people. It's more ego-driven and can be a fragile thing to work with. However, the back landscape is a lot easier to design because it's a personal area and people are more secure about what they want there." "However," continues Robert Hursthouse, landscape architect of R.S. Hursthouse and Associates,"a well-done landscape is not one you pull up to and say, 'What a great landscape!' You say, 'What a beautiful house.' It should be a seamless transition from the landscape to the front foyer or living room. We take the cues from the architecture. The site and existing plants tell at least half the story to us. The other half is the client's needs, perspectives, desires, wants, and expectations. It doesn't have to be that difficult to compile, consolidate, and present in a harmonizing package."

Hursthouse shares the philosophy that the landscape must be sensitive to the overall design of the house and its building materials. "The landscape should be fairly simple, allowing the home to truly blend into its surroundings. For example, I see a lot of dark red brick homes with medium red concrete pavers. The pavers fade over time so that the dark red becomes a light pink. The colors don't work." Hursthouse will either match paving material closely to the house, using a natural stone that will not change color, or he will choose a complementary color in a paver, bluestone, limestone, or granite.

Looking at the architecture, Korhan finds elements that can be repeated and integrated in the landscape. "If there's an arch over the entryway, we might use that same arch in a bed line or a seat wall, or even in planting a low boxwood hedge. We're bringing the two together."

A key element in a successful project is careful observation. Hursthouse lets no clue slip by that could give him an insight into his client's desires. "They often can't verbalize what they want. I like to look at their artwork, their furnishings, what they're wearing — that all tells me how they view themselves and their place." Hursthouse also strolls through the first floor and sometimes the second to visualize the site lines as the clients will view them. He checks to see how passing headlights will hit the house and incorporates plant materials to screen it. "Some clients like to be able to see out to the street, using very few window treatments and lots of light. Others like to be sequestered."

This photo of a Jeff Korhan residential project was taken in early Spring and shows the venerable walnut tree surrounded by plantings that provided good color and textural contrast: English ivy, lamium, heart-leafted bergenia, heuchera, and ornamental trees.

Characterizing his designs as having a naturalistic elegance, Hursthouse says, "They're not tightly sheered nor heavily wild. There is a purpose for [formal] clipped evergreen hedges. The other [informal] style is very soft, rounded, and very natural. Both styles are appropriate because clients have different needs and expectations." Hursthouse aims to blend the best elements of formal and informal plantings. "One is like a nice crisp suit and the other is like a comfortable pair of jeans. Both styles have a place in your closet, and you need to know when to wear which."

Form, Function, and Fun

Energy and movement are two important elements in Korhan's designs. "We're always looking at how the landscape is experienced," he says. "The front is typically experienced from the street level and again as you pass through it. We think about color, rhythm of planting sequence, the path, the hedge — the energy and dynamics that create more than a picture."

For traditional homes, Korhan uses boxwood or yews but adds his own personal touch to create something out of the ordinary. "Boxwood is typically a medium green that reflects a lot of light. Good companion plants are the other side of that — silvery and able to absorb light." Korhan paired one of his favorite perennials, Artemisia, with a boxwood hedge and a brick path for a new traditional home. The silvery foliage was placed at the front of the hedge. "It was a small investment that punctuates and sets off the front entryway. Otherwise, we felt the lines where the hedge and walk came together were too hard."

When the job permits, Hursthouse likes to have a hand in siting a new house. "The architects know the complexities of building, but they don't look at the landforms. And engineers understand grading, but don't take in the aesthetic factors." In a project on a 1-1/2-acre site, the architect planned to place a formal, tailored house 50 feet from the street on the setback line. Hursthouse convinced the architect and the homeowner to set the house back 165 feet. He then created a series of terraces to enhance the house and the site. "The house appeared to be 10,000 square feet instead of the actual 6,000 because of the landscape and how it tied together."

Whether the property is 1/4 acre or larger, the landscape design should allow the homeowner and visitors a chance to linger as they move from the driveway or street to the entryway. Moving from turf to groundcover, past shrubs and trees creates a series of visually interesting levels. Effective designs provide an outdoor greeting space much like a foyer does indoors. "It's a gathering point. When you get there, you turn around and look at the landscape. It's a transition that allows you to move back and forth — inside and out — gracefully," Hursthouse says.

One concern for Hursthouse is being brought onto a job after the sidewalk is poured. "A 3-ft. sidewalk doesn't make for an appealing entryway. The walk up to the front of the house should not feel like a tightrope," says Hursthouse, who rarely builds a front walk less than 5 ft. wide. "Sometimes the challenge is overcoming the budget issues of something already done wrong."

One way to encourage visitors and homeowners to view the architectural details of the house, windows, doors, and other elements is to catch them on a path that doesn't lead straight to the house. "You don't want to get dumped off at a little sidewalk next to the driveway where you creep under the eaves next to the windows up to a small landing," Hursthouse says.

On large sites, Korhan looks to adjoining areas for visual cues. "As you get further from the residence, we look at the surrounding landscape to borrow elements and in some way abstract them into the design." Meadows, woods, fields, even fence rows are visual elements that provide ideas for landscaping.

continued on page 104

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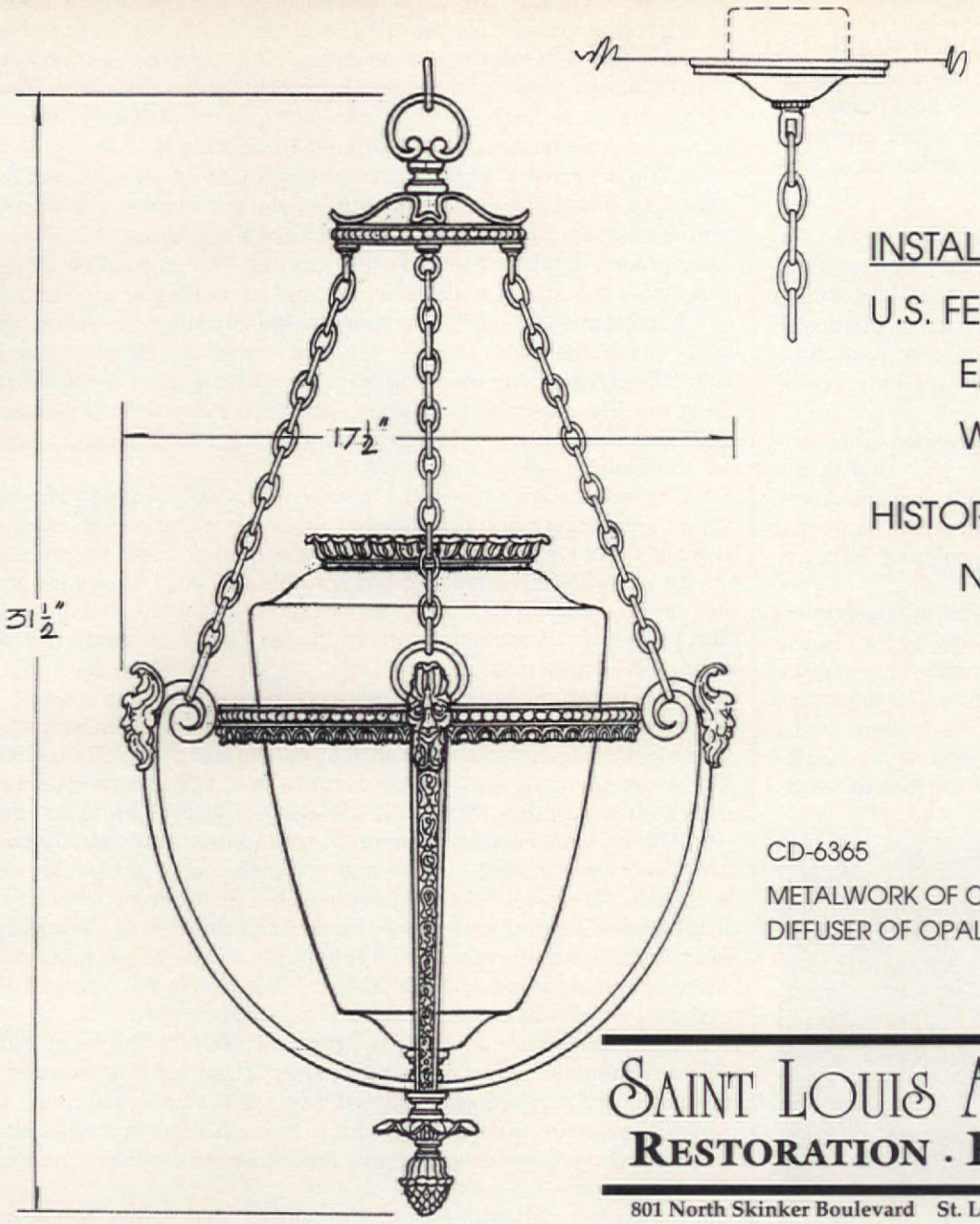

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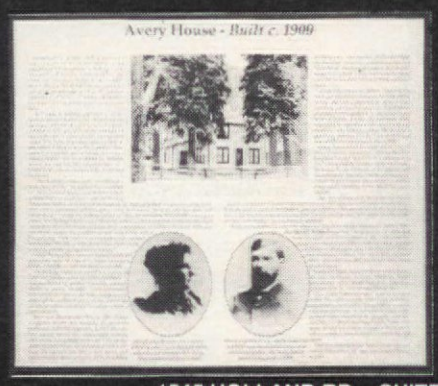

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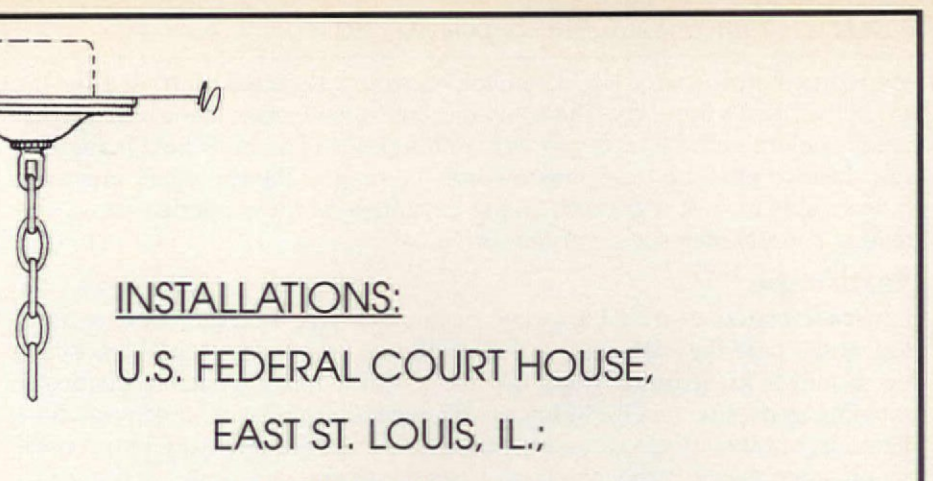

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WRITE IN NO. 7180

CREATING CURB APPEAL, continued from page 102

"We worked on one rural site where the horizon was dotted with silos like the one on the client's property. These silos became a connection to the horizon that visually enlarged the 10-acre property to hundreds of acres by borrowing that view. Instead of siting the home towards the road as the client had intended, we were able to shift it slightly, taking advantage of the expanded views and creating a more interesting entrance drive."

Hardscape

Hardscape materials available today are more diverse than they've ever been. How and where they are used makes a difference between a good landscape design and a great one. "There are block walls, paver systems, manmade materials, geotextile blocks. Many people are building hardscapes with these materials, but they don't necessarily take the house's architecture into consideration when selecting the material," Hursthouse says.

One common mistake occurs when landscapers do not pay adequate attention to the house color and how it plays against the materials used in the pedestrian and vehicle pathways. Hursthouse points to a highly acclaimed new home built with a cool grey brick. "The pavers used were concrete terra cotta, which were too yellow against the house. It would have been much better to select an icy, cool flagstone."

An award-winning courtyard made with bluestone began as a collaboration between Korhan and a client who wanted a dramatic entryway for a house sited on 1/8 acre. Inspiration for the project came from the muted hues in the brick house's mortar, which had various shades of grey and green. Korhan went to an upstate New York quarry and selected the stone. "We knew that the regular bluestone was too blue and too cold; there was a subtlety we had to address." He chose grey and green shades of bluestone to pull the look together.

For a residence situated fairly close to the street, Robert Hursthouse first used concrete pavers in taupes and beiges for the drive. He then switched to bluestone for the gently stepped, wide pedestrian path punctuated with containers and a bench. The sugar maple acts as a canopy over the walkway, decorated with tuberous begonias.

A safety issue alongside the courtyard's sidewalk was a 10-ft. drop. Korhan constructed a masonry seat wall made from brick that matched the house. "There's a definite element of drama. The courtyard and the coping on the seat wall is bluestone, and it looks like it's been there forever." Korhan likes to work with Wisconsin limestone, bluestone, and brick. "We like to mix brick and stone." He may use limestone to border a brick walk or as a divider that breaks up a patio or longer walk. "It gives a walk a different rhythm and texture. It creates a different movement by slowing the pace down."

Among Hursthouse's preferred paving materials is a natural wallstone from Pennsylvania called Endless Mountain Stone. "It has a true, genuine, organic kind of feel. It's hard to beat the real thing with a variation of colors — taupes and beige. It adds life."

Another common hardscape design flaw is using the same material for the driveway and the sidewalk. "It feels like you can pull the car right up to the front door," Hursthouse says. "If the material changes, you know there's a transition. It's nice to know where the cars belong and where the people belong. It makes the space feel larger." He compares the use of different pedestrian and vehicular path materials to the inside of a house where the space changes as one goes from, say, quarry tile to a wood floor. "You want to play down the driveway because usually it's not an architectural feature that enhances the house," Hursthouse says. At his own house, he used antique street pavers from the front entrance through the parkway turf and along the street as a carriage walk.

Concrete paving brick has taken the market by storm and is used by both Hursthouse and Korhan. "Clay pavers, your traditional paving brick, have a rich, deep color that reeks of patina and an established feel. It's a material that ages gracefully. The concrete pavers are wonderful, but I'll pick neutral colors, like taupe or beige," Hursthouse says. Because walkways generally have less square-footage and cost less than the driveway, he'll use a more-expensive walk material that plays up the details and colors in the house.

Plants

Over the years, Korhan says, he has learned to like virtually every plant available. "Typically, the landscaper dislikes a plant because it's been overused or improperly used." He has used ornamental grasses, even for traditionally styled houses. Grasses that are effectively massed can be used almost anywhere. "We do like to use native grasses. The prairie dropseed (Sporobolus) is a tough plant with no die back." Korhan also will mass the feather reed grass (Calamagrostis) as a vertical accent and Molinia for its delicate texture.

"You have to fit the plants to the site and not vice versa," says Connor Shaw, owner of Possibility Place Nursery, a wholesale nursery that specializes in native trees, shrubs, vines, and prairie forbs and grasses. "Many people would use a green ash where I would use a burr oak. The green ash is all right, but the burr oak has aesthetic value in winter and fewer disease problems."

Landscapers also are using more native viburnums — shrubs that provide four-season interest — in many types of formal and informal designs. "There might be eight to 10 in the trade that cover the gamut from 6 to 8 ft. tall to 15 to 20 ft. tall. They seem to have good adaptability and disease resistance," Shaw says. Fragrance, fruit, and attractive fall color make viburnum a versatile plant for foundations, hedges, and accents.

"There are always plants that are very hot, very in vogue," Hursthouse says. "It's a great temptation for some to rubber stamp the designs over and over. If it worked here, it will work there, and it will work down the street."

In what he calls a tailored but naturalistic look, Hursthouse used a sugar maple, Washington hawthorn, serviceberry, and a judd viburnum. Boxwood and yews were incorporated into the design, "but they're not overly sheered or formal. It's more of a gardeny look," he says. A raised flagstone bed holds tuberous begonias, and pachysandra creates another level.

Hursthouse's biggest concern is that "many plants in the landscape are time bombs." He cites the cistena plum as an example of planned plant obsolescence. "It's an inexpensive shrub with a beautiful leaf, and everybody loves it, but it's extremely susceptible to borer. It will eventually deteriorate, so I don't use it."

Although they are lovely, river birch and Bradford pear are two trees that are overplanted in the Midwest, and plants that are overused are an invitation to disease. "If a plant becomes over popular, something is bound to come after it, whether it's a Bradford pear or a burr oak," Shaw says. "While the Bradford pear is more ornamental (like a lollypop), a blue beech is a much smaller, more-adaptable plant at 15 to 20 feet." The beech, with good fall color and catkins, can be used as a specimen or in a shrub border.

More clients are requesting perennial beds in the front of the house. "There's more of the feeling that the perennial garden is not limited to the back border. Everybody seems to feel that they want color — and fragrance, too. We can achieve both more readily with perennials than flowering shrubs," says Korhan, who enjoys using bergenia and other old-fashioned perennials in the front landscape.

For added curb appeal on traditionally styled homes, landscape designer Marcy Stewart-Pyziak often uses heirloom-variety shrubs along foundations and in borders. "Hydrangeas are one group of shrubs that create an informal and old-fashioned look." She likes the Annabell hydrangea (a variety discovered in Annal, Ill., in the early 1900s) and uses it around entrances to evoke a cottage feeling. "It works well when planted in small clusters." Although high-maintenance tea roses don't rate high for most foundation plantings, rugosa roses are appearing more often in front-landscape designs because they are generally disease- and pest-resistant, have fragrance, and are hardy. "The two I like the best are Blanc Doube de Coubert and Belle Poiteveine. They aren't as sprawling or leggy as others."

Lighting

Relatively safe and inexpensive to install, new lighting fixtures in low-voltage models are proving to be popular during the day and at night. "The 12-volt lighting systems are fabulous," Hursthouse says. "They're a far cry from the little plastic malibu lights." While he installs lights for homeowner security, as well as to highlight architectural aspects of the house, he also likes to light the plantings: "A clump form of the soft pink crab apple looks great lit from below in summer and in the dead of winter when the light catches the falling snow."

"Playing with color, light, space, scale, and perspective is how you create an effective landscape design," says Korhan. "If you take color and lighting and the movement of ornamental grasses, that's the energy of the landscape," he added. "Clients frequently request color, which is the energy of the landscape during the day, but they overlook lighting. Fortunately, when they see professionally designed lighting, it can often be breathtaking. If they have the budget, it essentially sells itself."

Used in a front landscape, lighting extends the homeowner's view. Lighting up shade trees throws a soft moonlit feeling on the lawn or entryway. "It can be a wonderful extension of the home landscape, especially for wayfinding," Hursthouse says. However, lighting is easily overdone. "The selection of lighting is extremely personal. Clients tend to have more opinions about lighting than anything else. They're not necessarily accustomed to plants or paving material, but they're all familiar with the medium of light and how it works," Hursthouse says. Some of his clients prefer understated lighting while others want the landscape lit like a Christmas tree. Diplomacy, good judgment, and compromise will help meet the client's needs.

Once installed, a landscape is constantly evolving. "It's not something done and left. Trees planted on the southfacing side of a house will shade it in a few years, and what's been planted there will not necessarily be able to grow in full shade down the road," Hursthouse says. He has worked with some clients on as many as four new homes during a 20-year span. He'll often give clients a gift subscription to a garden magazine. "That helps them discover their own style. They see things and call back." ■

Nina Koziol is a garden designer who specializes in late-19th- and early-20th-c. residential landscapes. Her horticulture articles appear in the Chicago Tribune and Old-House Journal. She lectures at The Morton Arboretum and the Chicago Botanic Garden and is co-author of "The Historic House and Garden: 1836-1936" for the Illinois Historic Preservation Agency. She can be reached at (708) 361-5144.

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THE SEVEN DESIGN PRINCIPLES OF EXTERIOR DECORATING

Furnishing rooms without walls can be a daunting challenge. Here, the creator of a high-end garden-furniture collection tells how he maps out the boundless world of exteriors.

by John Danzer, *Munder-Skiles*

Recently, a client called me with a huge order from my line of garden furniture. "Wait a minute," I said, "that sounds like way too many chairs. Stop right now. Send me a check for consultation, and let me look at the site." I have seen countless gardens in the last decade, and I still can't imagine how anyone can use twelve matching metal chairs. Though selling garden furniture is a big part of my business, I believe that most people would do better buying less outdoor furniture, particularly in matching sets. More and more, I find myself showing clients how to use garden chairs and tables sparingly in order to fully enjoy them.

In this instance, after a three-hour visit, I managed to convince my client that he only needed half as many chairs as he first envisioned. As my grandmother used to tell me, ***"the more you know, the less you need."*** But I also knew that some items were sorely missing in his original order, and I suggested he get a table, four planter boxes, and a bench. Eventually, I also advised him to purchase two extra chairs from another supplier and I strongly recommended he bid on a particular antique sculpture I had seen in a Sotheby's auction catalogue.

When I started 12 years ago as a dilettante historian with a passion for garden furniture, I had no idea I would end up as an "exterior decorator," someone bridging the ever-widening gap between interior decoration and landscape design. But new high-tech developments — from indoor electronic climate control, voice-activated lighting programs, integrated communication systems, and dedicated computer wiring — have turned houses into complex machines. Today, we spend an increasing amount of time inside, interacting with technology, and less and less time outside: reading, thinking, chatting, strolling, or simply daydreaming. Maybe we have forgotten what we are supposed to do in our gardens. However, by turning a non-descript outdoor space into a series of open-air rooms, a decorator with garden expertise can help home owners rekindle their precarious relationship with Nature.

What is Exterior Decorating?

Unlike interior decorators who deal with a finite space, exterior decorators deal with infinite horizons. Nothing is ever the same in this ever-changing world. The angle of the sun shifts constantly. Clouds come in. Leaves fall. Flowers grow. Fog rolls in. The ground turns brown. And the weather affects the way a piece of furniture, a statue, or a fence will look a day, a month, or a year hence.

For exterior decorators, familiarity with weathering issues like patina due to exposure to sun and wind, moisture retention, wood water content, and surfactant release is as critical as ideas about design and architecture. Also key is a solid historical knowledge of garden furniture and styles, as well as a constantly updated list of sources, contacts, and phone numbers here and abroad. A relatively new field, exterior decorating is research-intensive. The Munder-Skiles library alone contains more than 7,000 slides of garden views and details (collected during decades of inquisitive traveling), numerous art books, scrapbooks organized by topics, garden memorabilia, and a comprehensive collection of current catalogues of commercially available products.

Although exterior decorating does not involve arranging flower beds, tracing alleys, or positioning trellises, it is a discipline that most resembles landscape design — with design expertise billed hourly. But whereas landscapers put up permanent structures, exterior decorators are concerned with semi-permanent or moveable man-made artifacts, such as tables, chairs, benches, planters (preferably on wheels), urns, sculpture, bird baths, and umbrellas. In other words, we deal with objects that humanize a gardenscape by revealing the presence of its owners.

Newcomers to a team of outdoors experts that includes licensed landscape architects (who deal with site, drainage, and infrastructure), as well as horticulturists (who plant trees, seed lawns, and grow flowers), exterior decorators sometimes feel that they are at the bottom of the food chain — called on a project at the last minute, when many critical decisions have already been made.

Often, mistakes could have been avoided if the exterior decorator had been brought in earlier — before the bulldozers roll in. Too often, a steep flight of steps must be negotiated to bring a breakfast tray from the kitchen to the deck; the swimming pool is a big blue hole next to the driveway; or the main terrace overlooks the neighbors' satellite dishes. Clients seldom allow enough time to analyze the potential of a site, discuss in depth the intended use of the space, and dream up the ideal garden for themselves, their immediate family, and closest friends. Ultimately, the role of the exterior decorator is not to make a "perfect" gardenscape, but to insure that the exterior of a house works for the people who live in it. The conscious purchasing decisions clients make as a result empower them to enjoy the outdoors on their own terms. Hiring an exterior decorator will add emotional square footage to a home by extending its comfort zone beyond the front porch.

How do you begin? To initiate the process, owners and their exterior decorator take a long and leisurely promenade, first around the house, looking at it from the road and the garden, then inside, to survey the views from the various terraces and windows. One needs to stroll through every single room to evaluate the possibilities of a site. "The inside and the outside go together," says Albert Hadley, from the famed Parish Hadley decorating firm. "What goes

continued on following page

WHAT YOU CAN LEARN STROLLING IN A PUBLIC GARDEN: Visitors to Dumbarton Oaks, a grand historical estate in Washington, D.C., can't help but notice that the further they walk away from the house, the more casual and relaxed the garden and its furniture. There are over 40 different designs of furniture on the premises, from the formal wood and metal trellis bench outside the main building (top) to the languid stone bench in the wild forsythia garden at the far corner of the property (above).

DESIGN PRINCIPLES, continued from previous page

on out there should reflect the same sensibility as what goes on indoors. There should be a sympathetic connection between the two."

It's wise to take pictures during this initial phase — one or two rolls of print film showing close-ups of architectural details, moldings, and textures. Better not rush this process: a good exterior decorator is as patient as a gardener. Each site is unique, different early in the morning, at sunset, or under the moonlight.

On that first visit, it's not a bad idea for the exterior decorator to bring a couple of pieces of furniture to the house, put them on the terrace, and let the homeowners test them for size, fit, and comfort. Impromptu cardboard cutouts that mimic the silhouette of a sculpture, a fountain, or a fence can also come in handy. Five borrowed chairs lined up in a row can give a pretty good idea of where a bench should go — and how long it should be. The scale of outdoor furniture is misleading: monumental in the showroom, a bench will look small once placed on a grassy bluff or under a tree.

This hands-on approach gets everyone to have fun and relax. Indeed, there are many principles involved with designing an outdoor environment, but none is as critical as creating a sense of ease, play, and respite.

First Principle: COMFORT

The world of exteriors should be as comfortable as the world of interiors. The booming "casual furniture" market — as the outdoor-furnishing business is called — reflects the fact that we lead more casual lives. It doesn't mean, unfortunately, that we spend more time outside. In fact, more often than not, outdoor-furniture is used inside homes, to create a faux-garden mood. So why not return the compliment and make gardens more like interiors: more comfortable and more residential in feeling.

This doesn't translate to having more cushions on patio furniture! To make the outdoors more comfortable, you need to create a sense of scale between the individual and the big emptiness out there. You can achieve this result with objects that guide your eye from place to place: an urn, a bench, an awning, or tree-filled planters that subdivide a large terrace into smaller, less-daunting leafy units.

The most important function of exterior decoration is to create a sense of comfort. As Oscar Wilde once observed: "Nature is uncomfortable. Grass is hard and lumpy and damp, and full of dreadful black insects." Outdoor furniture sometimes adds to this malaise. Chairs and benches can be heavy, with rigid mesh, narrow slats, spiky wicker, and rough edges. The first imperative is to use proper adult garden furniture that is not too stiff or saggy.

Ergonomics are critical — sitting upright in a garden is actually more relaxing than sloughing backward. Well-designed, an outdoor environment can play a major role in modern life: It is a place to relax, refocus, and restore your energy. To quote the Beverly Hills Hotel's motto: "Sometimes the Only Way to Advance is to Retreat." Anything that encourages people to interact with the outdoors is beneficial to them — from speakers in the form of rocks scattered on a lawn to high-definition television screens on the patio.

Second Principle: APPROACHABILITY

Make the house more approachable from the outside. There is something unmistakably friendly and humanizing about a house with garden furniture visible from the driveway. It is a manifestation of the sense of hospitality of people who live in it. It's confusing to drive up to a house and not know which way to go. A piece of sculpture or a line of tree planters will help sort the main entrance from the service alley. Strategically placed, selected objects will help visitors find their way around.

The presence of outdoor furnishing not only welcomes the eye, but also directs it. A couple of chairs around a small table indicate proximity to the living room. A larger dining table under a tree will suggests that the kitchen is not far away. And if, in the distance, strollers notice a bench turned away from them, they'll be tempted to walk to it, its direction informing them that there is in front of it a vista worth contemplating.

Third Principle: THE TABLE

Start with a good table. Interestingly enough, it's not the chairs or the benches that are most useful outside, but the tables. They create layers between you and the ground. They dictate where you sit and what you do. A folding table is a great purchase because it's easy to transport around the property. Open next to a bench or under a pergola, it becomes the promise of a moveable feast.

When you see four chairs alone, without any kind of table in sight, you might as well be looking at a black hole. On the other hand, a large table on a wide porch can stand on its own, without chairs around. "Big tables have a definite presence," notes Albert Hadley. "They add a marvelous dimension to space, particularly when they hold flower pots, candles, or baskets full of freshly-picked tomatoes."

To choose the right table, the exterior decorator thinks about the demographics of a family: the number of people who live in the house, their age, their needs. Only then are his or her clients asked to select the right chair to go with it — one that's most comfortable to them because it's the right fit and the right scale. Try as we might, when it comes to chairs, one size doesn't fit all.

There are as many garden chairs as snowflakes. Making the selection even more difficult is the fact that, in this instance as well as many others, location is everything. The same chair will look one way if it is on a deck, where it is seen from above, sideways and under, and another way if it is placed in the dappled shade, surrounded by shrubs and ferns, where it will blend with the landscape.

But clients need not agonize when picking a chair. Exterior decorators can facilitate the task by pointing out the various possibilities: see-through versus solid, metal versus wood, formal versus relaxed, and so on.

Next comes the bench. Mixing a bench with chairs around a table makes the whole seating arrangement more approachable, more sensual, more spontaneous. A bench brings people together. It creates community. And if need be, it can stand alone, inviting sitters to engage in private conversations.

Last but not least, clients will be well-advised to invest in one-of-a-kind, hand-crafted objects — whether it's an iron gate, a terra-cotta planter, a bird cage, or a fountain. Things made by the human hand appeal to our curiosity. We immediately want to know who made what, when, and why. A single hand-carved marble vessel, for example, can evoke childhood memories, conjure up romantic fantasies, and bring back to life the remembrance of gardens past.

Fourth Principle: DAILY LIFE

Don't let your social calendar stifle your daily routines. Most people think of the outdoors as a set-up for their parties. As a result, their terraces and patios are often too spacious, their tables too large, and their chairs too numerous.

Two smaller tables (one that sits four and another that sits six) instead of a large one is usually the smart solution. When entertaining, there is nothing wrong with mixing indoor and outdoor furniture — the console on a landing upstairs would do fine as an extra table for a party. Things don't have to match to work well together. We have broken the habit of matching furniture indoors; now we have to break this habit outdoors.

Garden seats should not look like they come from a rental house: a set of four matching chairs is a maximum. To accommodate a crowd, why not add a bench, get two odd chairs in a different material, hang a swing on a porch, and stretch a hammock between two trees?

With serendipitous furniture arrangements, homeowners are more likely to feel like sitting on their terrace with a mug of coffee and the morning paper to enjoy their view instead of postponing this pleasure until the next labor-intensive weekend brunch with friends.

Fifth Principle: RELAX

Give yourself permission to relax. Even the most hyperactive among us can enjoy listening to birds, looking at clouds, and watching the grass grow — if given the right opportunity. All you need is a good chair, one that doesn't make you fidgety.

Unless you are lounging on the beach, solitary outdoor time is most relaxing when you are sitting upright — with proper seat angle, armrest, and back support.

Contrary to popular belief, chairs that make

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PUNCTUATION MARKS IN THE LANDSCAPE: **Garden furniture and ornamental artifacts help organize emptiness. Here (top to bottom), demonstrating the narrative power of well-chosen objects is a whimsical barn-red urn on its pedestal, a see-through vase to hold passing clouds, the Taconic lounge chair as sensual as a sculpture, and a colorful brick and cobblestone walkway.**

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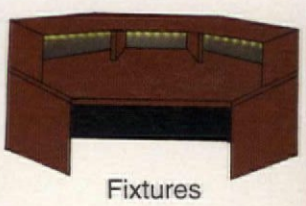

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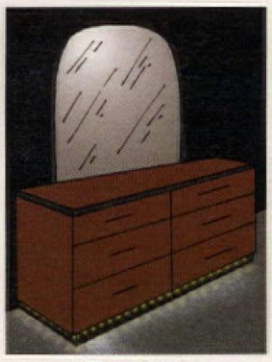

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Bar

Room Accent

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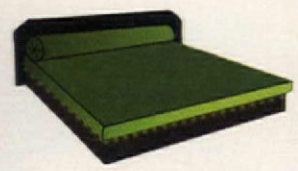

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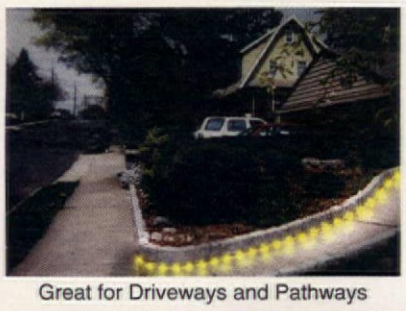

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SEVEN DESIGN PRINCIPLES, continued from page 106

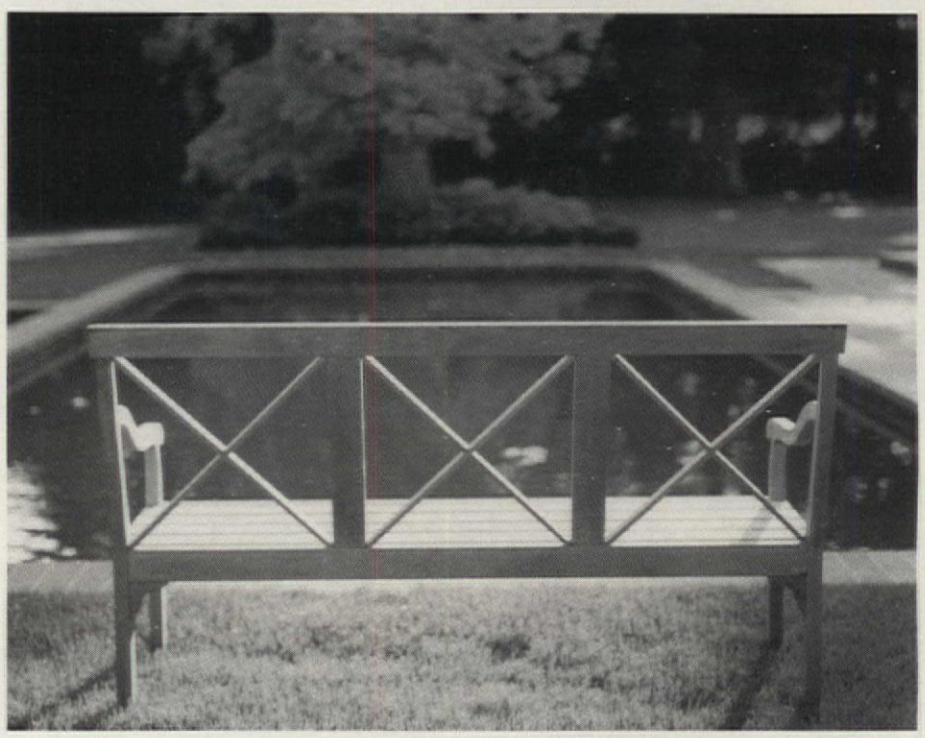
you feel alert are most restful. Also highly suspicious is the assumption that coffee tables are practical, indoors as well as outdoors. Bending over forward to grab a magazine or a drink is as awkward as can be. Place a tea table next to a chair. Smaller and higher, it will be less cumbersome, put everything you need within reach, and eliminate unnecessary body contortions.

Sixth Principle: THE CHILDREN

Create outdoors space where children (of all ages) can play. Unlike adults, children don't seem to be as bothered by bugs, heat, or cold...and they love to get dirty. The outdoors is their natural element. Yet, like adults, they now spend more and more time indoors, watching television and playing computer games. It makes one nostalgic for the times when families would fritter away the evening in small talk on their mosquito-free front porch (mosquitoes don't venture five feet above ground), with an occasional blanket for warmth and an iced drink for air conditioning.

Gone are those radio days, but the fact remains that a garden that's well designed still appeals to children — or to the child in all of us. To take a measure of whether an outdoor space works or not, one should try to imagine how children would use it.

No outdoor environment is ever complete without child-alluring equipment, whether it's a sandbox, swing, basketball hoop, or swimming pool with a diving board. But remember that when children are around, adults will have more incentive to go outside as well, and provision should be made for them to be comfortable while they watch their kids. There are still too many play areas without comfortable seating for parents to relax and put their feet up.



GARDEN SEATING FOR DIFFERENT EFFECTS (from upper right to lower left): Edith Warton's seating group, adapted from garden furniture seen at the writer's residence in France; the Xylo Bench, based on an 18th-century French design; the Kelso Folding Table and Chairs of Scottish descent; and the Rain Bench, which can be flipped over when wet so that there is always a dry seat. All four examples of furniture are from the Munder-Skiles collection.

Seventh Principle: ALLURE

We are conditioned to think of convenience rather than comfort or beauty. Often, the view is ruined by cars, driveways, swimming pools, barbecues, and air-conditioning units too close to the house. One of the functions of exterior decoration is to restore the sensuality and the mystery of the landscape.

1) Do this with fences. They can be used to keep out visual pollution. Wattle fences can successfully to block out the neighbor's cars, their satellite dishes, recycling bins, and utility sheds. Whether made of wood or metal, fences come with ornamental finials, decorative inserts, fancy railings, hardware, and swags that create the most sensual graphic diversion.

2) Do this with sculpture: antique marbles, bird baths, old stone benches, or urns overflowing with petunias. By becoming the focus of an outdoors area, sculpture can direct your attention away from the more utilitarian aspects of a garden and invite you to experience the poetry of nature.

3) Do this with textures. Mix old and new, wood and metal, paint and patina. If your house has a lot of wood or gray fieldstone, you may want to chose painted metal furniture in contrast. Also mix good modern design pieces with good antiques or reproductions. Then let the natural bleaching of the sun turn all your wood furniture silvery gray. Beware of rust, whether the piece is old or new. Be ever so careful when buying antique garden furniture that's falling apart; these rusted beauties are nearly impossible to restore.

4) Do it with color. Garden furniture used to come in shades of mustard, dark purple, red rust, and French blue-green. Today, there is an extremely limited color palette available commercially: basic white, dark green, and black — in flowery patterns or stripes. Exterior decorators will help their clients dare to break the color code and use an unconventional palette on an umbrella, brick wall, awning, or occasional cushion.

Outdoor upholstering alone will not brighten things up. For one thing, cushions are not comfortable in the long run. Filled with water-repellent material and covered with coarse material, they soon feel lumpy. Well-designed garden furniture doesn't need cushioning to conform to the body.

Conclusion

More than a straight-forward service, exterior decorating is a process. Day in and day out, I find myself giving advice to clients on everything and anything — from where to eat on a terrace to how to get rid of mosquitoes; from why and when to wash away salt deposits on chairs to where to store towels near the pool. Relentlessly, I stop homeowners from buying tables that are too big and benches that are too small. Last but not least, I make sure they don't end up staring at their air-conditioning units or their Mercedes Benz while having cocktails on their patio.

The first mandate of exterior design is to help people create comfortable and individualized outdoor environments so that they have reasons to step outside and take that proverbial deep breath. ■

John Danzer is president of Munder-Skiles, a company offering full exterior-decorating services to landscape architects, garden designers, interior decorators, and homeowners. Located at 799 Madison Avenue in Manhattan, the company showroom features the Munder-Skiles garden-furniture collection, as well as a portfolio of antiques and related garden products. In 1994, the Munder-Skiles Taconic Chair, so named for the parkway that inspired its ergonomic lines, received the Roscoe Award, the first garden seat to ever be honored.

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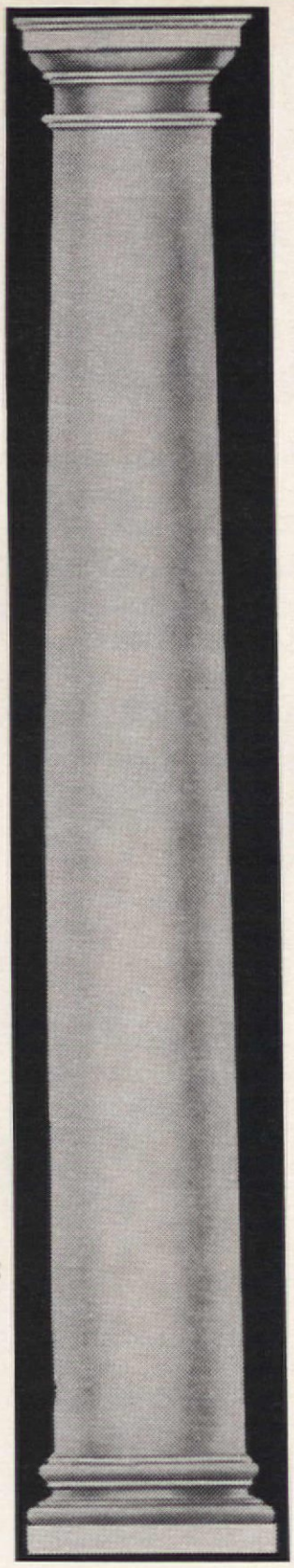

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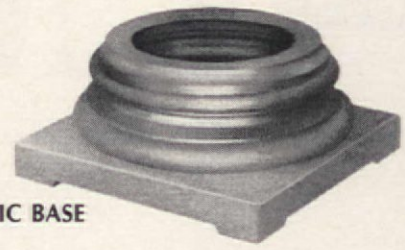

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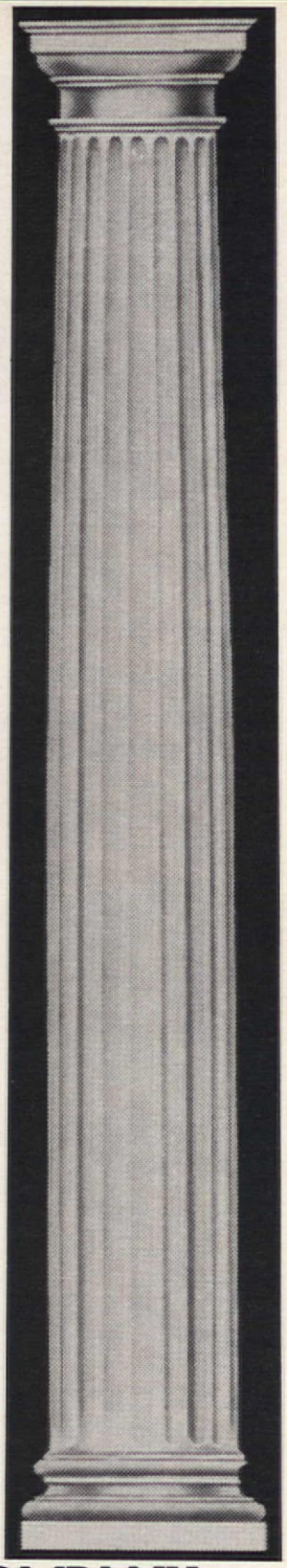

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Their study is organized into three sections: "Theory" attempts to explain landscape narratives and their interpretation; "Practices" sets about defining and illustrating various narrative practices; and "Stories" applies theory and practices to some specific stories. Filled with photos and illustrations, Landscape Narrative offers new insights into landscapes as diverse as Highway 61 and the New Jersey Meadowlands. Its original perspectives will be of value to designers, planners, and landscape architects, as well as students of design, narrative, and interpretation.

Buyer's Guide for Landscapes, Streetscapes & Gardens

In the 81 pages that comprise this Landscapes Section, you'll find detailed information on 394 suppliers of products and services for the creation of traditionally styled Landscapes, Streetscapes, and Gardens. In this, our 5th annual report in this fast-changing area, the Editors have compiled the largest Buyer's Guide ever assembled for builders and designers of traditional landscapes. This Buyer's Guide is divided into 4 major sections: (1) **ALPHABETICAL PRODUCT INDEX**, pp. 110-124, in which the products and services of the 394 listed companies are broken down into 113 product categories; (2) **SUPPLIER *SOURCELIST***, pp. 126-140, which contains a capsule description and complete contact information for each company; (3) **PHOTO PORTFOLIO**, pp. 142-170, which provides a visual sampling of the incredible array of landscape products available to today's designer; (4) **RELATED PRODUCT ADVERTISING**, which runs throughout these 81 pages. You'll find that this Buyer's Guide is an amazing and comprehensive survey of the world of landscape products today.

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For full contact information on these companies, see the *SourceList* on pp. 126-140.

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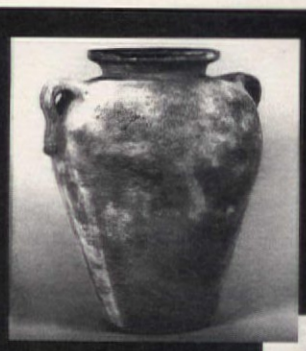

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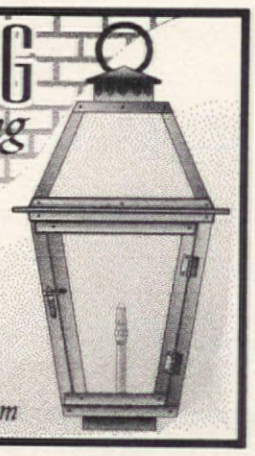

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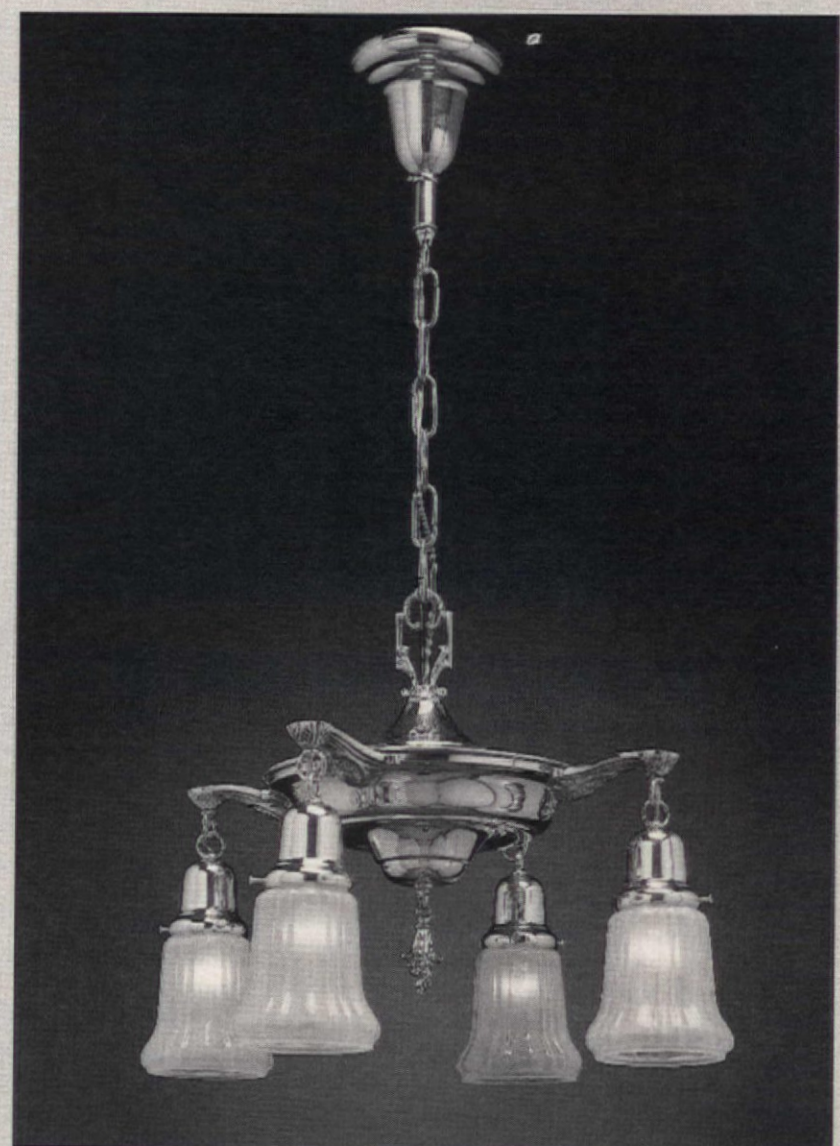

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(see also the Report on Specialty Brick, pp. 18-20)

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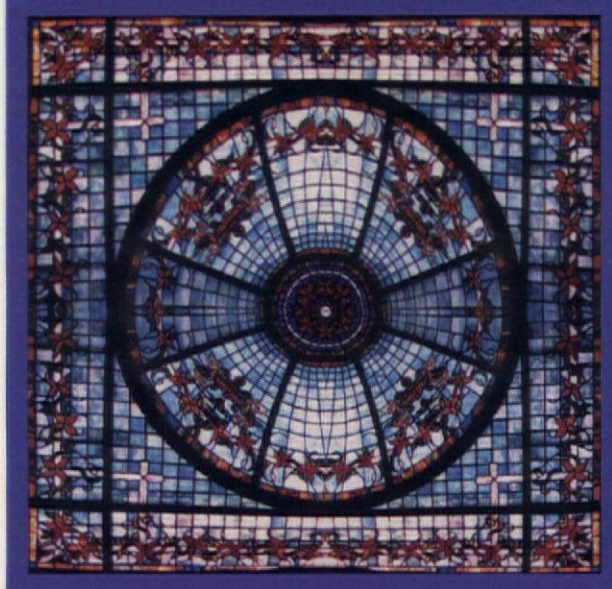

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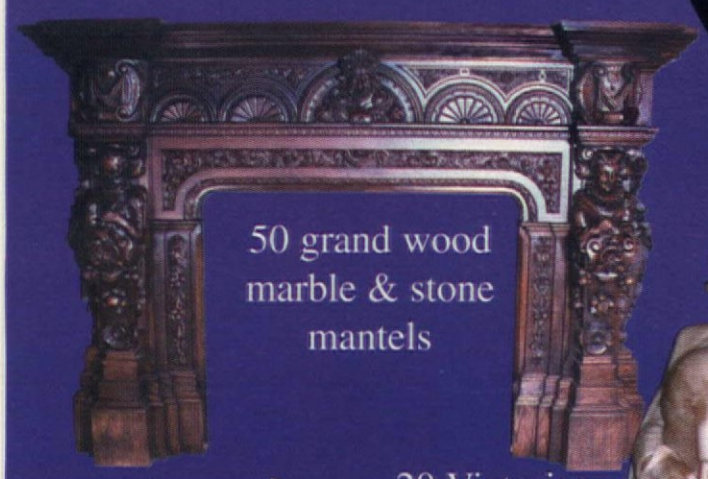

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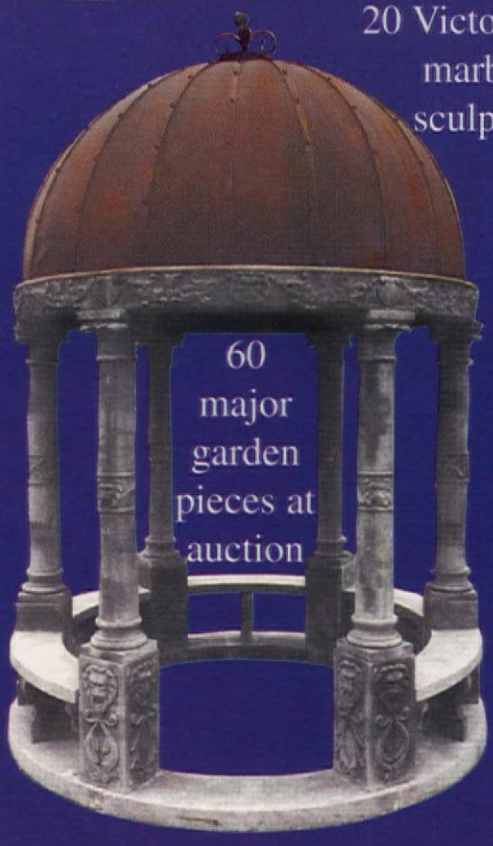

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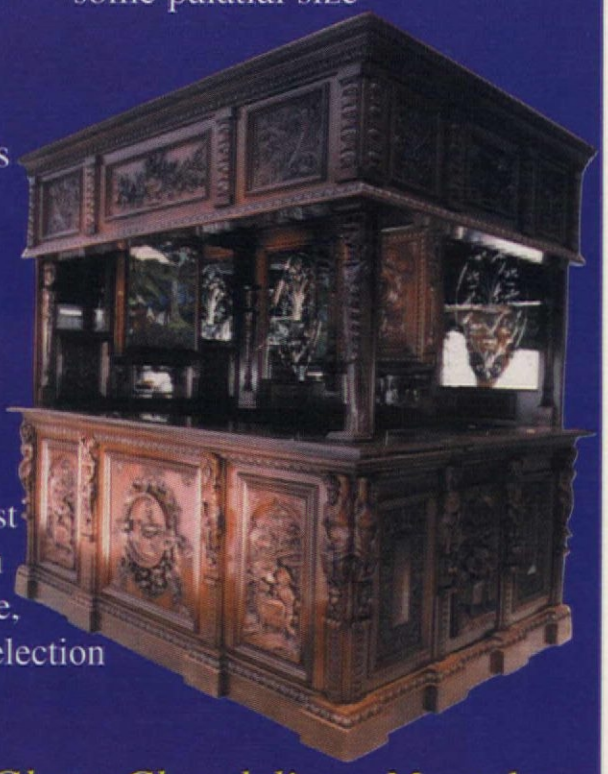

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Acquabella Fountains & Restorations
Allen-Robbins Architectural Metals
Archaic
Beckwith Designs
Bellagio
Brass Baron
Cantera Especial
Colson Studio
Concrete Creations
Curtiss Studios
Custom Cascades
Diamond Water Systems, Inc.
DMS Studios
Garden Art International
Gareth Curtiss, Sculptor
Goodwin International
Great Gatsby's
Historical Arts & Casting
Limestone Concept, Inc.
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MacDonald & Associates
Modern Art Foundry
North American Stone Co.
Quarry Line, Inc.
Robinson Iron Corp.
Rossato Giovanni
Shannon Stone Co.
Sierra Architectural Cast Stone
Smith Bronze Sculptures
Stone Forest
Texas Carved Stone, Inc.

FOUNTAINS, Wall

A&M Victorian Decorations
Aardvark Antiques
Acquabella Fountains & Restorations
Am-Dia, Inc.
Archaic
Architectural Facades Unlimited
Architectural Pottery
Bellagio
Blake Industries
Brass Baron
Cantera Especial
Classic Cast Stone of Dallas
Classic Terra Cotta Co.
Colson Studio
Crosswinds International
Custom Cascades
DMS Studios
Designs in Tile
Earthstone Containers
Expressions Studio
Florentine Craftsmen
Garden Art International
Gladding McBean
Goodwin International
Great Gatsby's
Haddonstone (USA), Ltd.
Italgarden
Kane Sculpture Studio
Kansas City Art Statuary
Limestone Concept, Inc.
Lynch & Sons, Inc.
MacDonald & Associates
North American Stone Co.
Patio Garden Ponds
Pottery Mfg. & Distributing
Rossato Giovanni
Sandifer Sculpture
Seal Reinforced Fiberglass
Seibert & Rice
Shannon Stone Co.
Sierra Architectural Cast Stone
Stone Legends
Texas Carved Stone, Inc.

FURNITURE, Garden

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Allen-Robbins Architectural Metals
Alloy Casting Co.
Am-Dia, Inc.
Barbara Israel Garden Antiques
Barlow Tyrie, Inc.
Bellagio
Blake Industries
Braun & Co., D.M.
Broken Anvil Forge
Cantera Especial
Carlton Design
Centerville Swing Bench & Rocker

For full contact information on these companies, see the *SourceList* on pp. 126-140.

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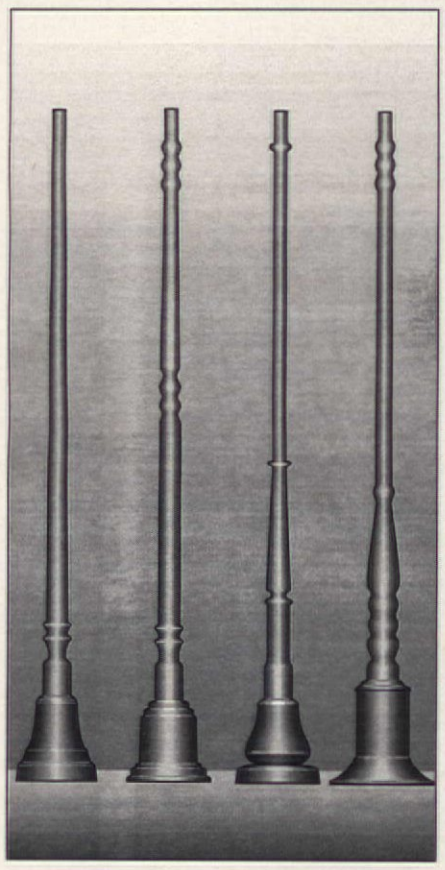

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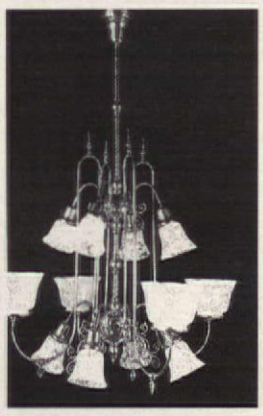

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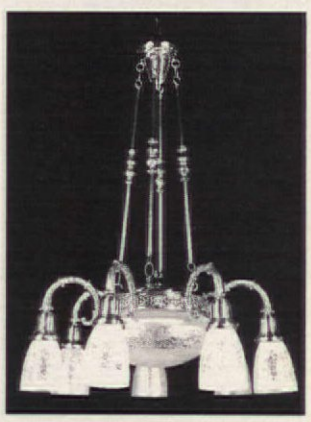

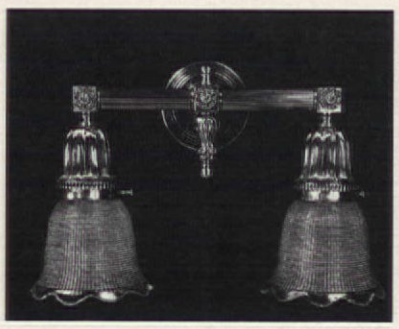
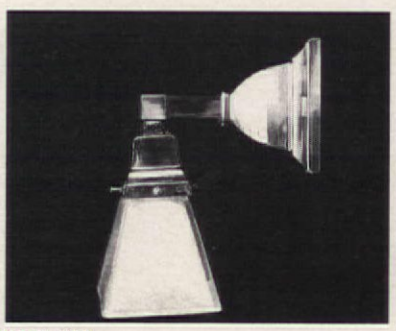

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Robinson Iron Corp.
Romancing The Woods
Rossato Giovanni
Sargent's Forge
Smith & Hawken
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Stone Legends
Sylva Designs LLC
Tennessee Fabricating
Texas Metal Industries
Vermont Outdoor Furniture
Urban Archaeology
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Braun & Co., D.M.
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Cantera Especial
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Florentine Craftsmen
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North American Stone Co.
Outdoor Lifestyle, Inc.
Sargent's Forge
Smith & Hawken
Sylva Designs LLC
Vermont Outdoor Furniture
Walpole Woodworkers
Wood Innovations of Suffolk
Woodard Contract

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Beckwith Designs
Blake Industries
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Archaic
Architectural Pottery
B&H Art in Architecture, Ltd.
Bamboo & Rattan Works, Inc.
Bamboo Fencer
Bamboo-Smiths
Beckwith Designs
Bellagio
Brass Baron
Broken Anvil Forge
Cantera Especial
Chimney Pot Shoppe
Classic Cast Stone of Dallas
Colson Studio
Conant Custom Brass, Inc.
Concrete Designs
DHS Designs
DMS Studios
Durastone
Earthstone Containers
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Fine Garden Art & Ornaments
Florentine Craftsmen
Garden Art International
Gareth Curtiss, Sculptor
Gladding McBean
Goodwin International
Graney & Assoc. Metal Design
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Rising Sun Gardens
Robinson Consumer Products
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Smith & Hawken
Stewart Iron Works Co.
Stone Forest
Stowe Forge & Stone Works
Sycamore Creek
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Urban Archaeology
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Ball & Ball Hardware
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King Supply Co.
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Walpole Woodworkers

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Bamboo-Smiths
Barbara Israel Garden Antiques
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Broken Anvil Forge
Bufftech
Country Estate Fence
Creative Metal Design
Crosswinds International
DeAngelis Iron Work
Dutch Products & Supply Co.
EAGLE Gate
Ephraim Forge, Inc.
Farrodyne U.S.A. Inc
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Freedom Forge
Gaby's Shoppe
Graney & Assoc. Metal Design
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Mison Concepts, Inc.
Monumental Iron Works
New Blue Moon Studio
Normandy Imports, Ltd.
Painted Garden
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Robinson Iron Corp.
Romancing The Woods
Rossato Giovanni
Sargent's Forge
Schiff Architectural Detail
Stewart Iron Works Co.
Tennessee Fabricating
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Country Estate Fence
Cumberland Woodcraft Co.
DeAngelis Iron Work
Decorative Cast Basalt Sales
Durastone
Fine Architectural Metalsmiths
Florentine Craftsmen
Garden Art International
Glass House
Historical Arts & Casting
Jefferson Mack Metal, Inc.
Kroy Building Products
Leisure Woods, Inc.
Lynch & Sons, Inc.
Metalmorphosis Studios
Mison Concepts, Inc.
New Blue Moon Studio
North American Stone Co.
Painted Garden
Red Suspenders Timber Frames
Robinson Iron Corp.
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Rossato Giovanni
Safari Thatch & Bamboo
Smith & Hawken
Stewart Iron Works Co.
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Tennessee Fabricating
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Tooterville Trolley & Clock Co.
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Great Gatsby's
HAPCO, Inc.
Herwig Lighting
Hinkley Lighting
Historical Arts & Casting
King Luminaire Co.
Lexington Standard Corp.
Lighting by Hammerworks
Maguire Iron Corp.
Mel Northey Co.
Michael Ashford Design, Inc.
New Blue Moon Studio
New York Gas Lighting
Newstamp Lighting Co.
Norwell Mfg.
Period Lighting Fixtures
Ramond, Frederick
Rejuvenation Lamp & Fixture Co.
Rising Sun Gardens
Robinson Iron Corp.
Roy Electric Co.
Ryther-Purdy Lumber Co.
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Mills & Co.
Painted Garden
Romancing The Woods
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LIGHTING, Garden

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Florentine Craftsmen
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Laguna Lightcraft
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Newstamp Lighting Co.
Period Lighting Fixtures
Ramond, Frederick
Rejuvenation Lamp & Fixture Co.
Robinson Iron Corp.
Roy Electric Co.
Smith & Hawken
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Urban Archaeology
Vulcan Supply Corp.
Walpole Woodworkers

LIGHTING, Landscape

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Baxter & Co., J.H.
Beachside Lighting
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Cole & Co., C.W.
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Crosswinds International
Custom Home Accessories
Graney & Assoc. Metal Design
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HAPCO, Inc.
Heritage Casting & Ironworks
Herwig Lighting
Hinkley Lighting
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Imperial Mailbox Systems
Intermatic/Malibu
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Kichler Landscape Lighting
Laguna Lightcraft
Lexington Standard Corp.
Lighting by Hammerworks
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Rejuvenation Lamp & Fixture Co.
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Ryther-Purdy Lumber Co.
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Urban Archaeology
Vulcan Supply Corp.
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HAPCO, Inc.
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Lexington Standard Corp.
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Robinson Iron Corp.
Ryther-Purdy Lumber Co.
Selux Corp.
Sentry Electric Corp.
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Stewart Iron Works Co.
Tooterville Trolley & Clock Co.
Urban Archaeology

LIGHTING, Underwater

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Kichler Landscape Lighting
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Kichler Landscape Lighting
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Beckwith Designs
Brandon Industries
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Crosswinds International
Custom Home Accessories
Cutler Mfg.
Graney & Assoc. Metal Design
Hinkley Lighting
Historical Arts & Casting
Imperial Mailbox Systems
Janzer Corp.
Kroy Building Products
Mel Northey Co.
North American Stone Co.
Robinson Iron Corp.
Roy Electric Co.
Stewart Iron Works Co.
Stone Legends
Tennessee Fabricating
Texas Metal Industries
Walpole Woodworkers

METALWORK, Cast

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Ball & Ball
Brass Baron
Braun, J.G. Co.
Circle Redmont, Inc.
Curtiss Studios
DeAngelis Iron Work
Florentine Craftsmen
Figurative Art Studio
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Liberty Ornamental Products
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Mison Concepts, Inc.
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Morrow Company
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Ornamental Metal Inst. of N.Y.
Pietrocola Iron Suppliers
Robinson Iron Corp.
Schiff Architectural Detail
Smith & Hawken
Smith Bronze Sculptures
Steigerwald Sculpture
Stewart Iron Works Co.
Sylva Designs LLC
Tennessee Fabricating
Texas Metal Industries

METALWORK, Forged & Wrought

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Beckwith Designs
Broken Anvil Forge
Creative Metal Design
DeAngelis Iron Work
Ephraim Forge, Inc.
Figurative Art Studio
Fine Architectural Metalsmiths
Florentine Craftsmen
Freedom Forge
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Ironsmith, Inc.
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Jefferson Mack Metal, Inc.
Kayne & Son Custom Hardware
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Lawler Foundry
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Maguire Iron Corp.
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Normandy Imports, Ltd.
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Sargent's Forge
Schiff Architectural Detail
Stewart Iron Works
Stowe Forge & Stone Works
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MURALS, Painted

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Designs in Tile
Fishman Mosaics
Illahe Tileworks
Marshall Gold Leaf Studios
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MURALS, Relief

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Fishman Mosaics
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Gerald Siciliano
Gladding McBean
Limestone Concept, Inc.
MacQueen Sculpture
Shannon Stone Co.
Steigerwald Sculpture

ORNAMENT, Carved Stone

(see also the Report on Stone Carving, pp. 10-17)

Aardvark Antiques
Archaic
B&H Art in Architecture, Ltd.

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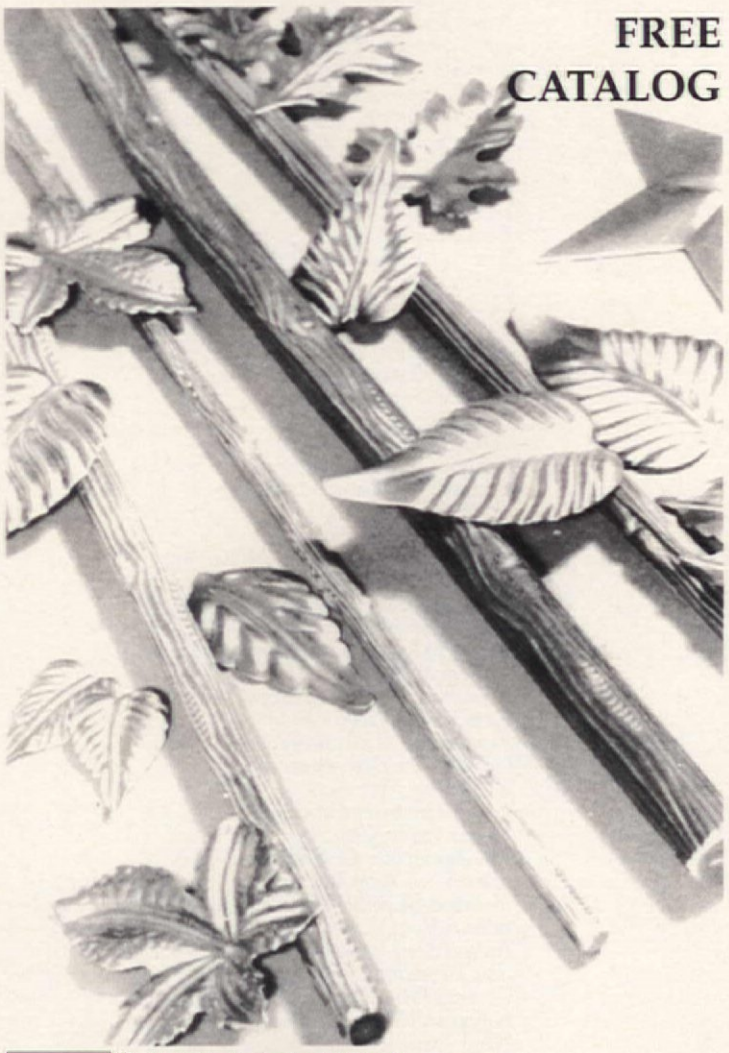

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Goodwin International
Great Gatsby's
Images in Slate, Inc.
Limestone Concept, Inc.
MacDonald & Associates
Maine Millstones
Michael Fannin, Stonewright
O'Sullivan Custom Etched Stone
Rising Sun Gardens
Rossato Giovanni
Shannon Stone Co.
Stone Forest
Texas Carved Stone, Inc.
Urban Archaeology

ORNAMENT, Cast Stone & Other Cast Materials

(see also the Report on Exterior Molded Ornament, pp. 38-53)

A&M Victorian Decorations
Aardvark Antiques
Architectural Facades Unlimited
Architectural Pottery
Architectural Reproductions
Ark Concrete Specialties
Barbara Israel Garden Antiques
Ball Consulting
Bellagio
Blake Industries
Bradstone
Centurion Stone Products
Classic Cast Stone of Dallas
Concrete Designs, Inc.
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Decorative Cast Basalt Sales
DHS Designs
Durastone
Earthstone Containers
East Park Garden Company
Federal Stone Industries
Figurative Art Studio
Fine Garden Art & Ornaments
Florentine Craftsmen
Garden Art International
Goodwin International
Great Gatsby's
Haddonstone (USA), Ltd.
Home & Garden Ornaments
Kansas City Art Statuary
Lynch & Sons, Inc.
Moonlight Molds, Inc.
Nichols Bros. Stoneworks, Ltd.
North American Stone Co.
Sierra Architectural Cast Stone
Stone Legends
Stonex Cast Products

ORNAMENT, Metal

Aardvark Antiques
Allen-Robbins Architectural Metals
Alloy Casting Co.
Artist in Iron
Ball & Ball Hardware & Lighting
Barbara Israel Garden Antiques
Beckwith Designs
Brass Baron
Braun, J.G. Co.
Broken Anvil Forge
Busch Industries
Copper Sculptures
CopperCraft, Inc.
DeAngelis Iron Work
Ephraim Forge, Inc.
Figurative Art Studio
Fine Architectural Metalsmiths
Florentine Craftsmen
Freedom Forge
Gaby's Shoppe
Graney & Assoc. Metal Design
Great Gatsby's
Heather & Little, Ltd.
Historical Arts & Casting
Indital, USA
J. Dub's
Jefferson Mack Metal, Inc.
Kayne & Son Custom Hardware
King Supply Co.
Lawler Metal
Lawrence Metal Products
LepoWorks, Inc.
Liberty Ornamental Products
Lighting by Hammerworks
Lynch & Sons, Inc.
MacDonald & Associates
Maguire Iron Corp.
Marshall Gold Leaf Studios
Metalmorphosis Studios
Mison Concepts, Inc.
Morrow Company
Mountain Ornamental Iron Works
NIKO Contracting Co.
Ornamental Metal Institute of NY
Pietrocola Iron Suppliers
Robinson Iron Corp.
Royalston Arts Foundry
Sargent's Forge
Schiff Architectural Detail
Smith Bronze Sculptures
Steigerwald Sculpture
Stewart Iron Works Co.
Sylva Designs LLC
Tennessee Fabricating
Texas Metal Industries
W.F. Norman Corp.

ORNAMENT, Terra Cotta

(see also the Report on Exterior Molded Ornament, pp. 38-53)

Aardvark Antiques
Architectural Pottery
Barbara Israel Garden Antiques
Boston Valley Terra Cotta
Chimney Pot Shoppe (MBE)
Classic Terra Cotta Co.
Echeguren Slate, Inc.
Figurative Art Studio
Gladding McBean
Goodwin International
Robinson Consumer Products
Seibert & Rice, Inc.
Urban Archaeology

OUTBUILDINGS

Boro Lumber & Timber
City Visions/Heritage Garden Houses
Leisure Woods, Inc.
Pacific Post & Beam
Red Suspenders Timber Frames
Vixen Hill Gazebos
Walpole Woodworkers
Wood Innovations of Suffolk

PAVERS

A&M Victorian Decorations
Ancor Granite Pavers
Architectural Facades Unlimited
Art Marble & Stone
Artcrete, Inc.
Bradstone
Burlington Natstone, Inc.
Cantera Especial
Classic Cast Stone of Dallas
Concrete Designs, Inc.
Decorative Cast Basalt Sales
Durastone
Echeguren Slate
Federal Stone Industries
Gladding McBean
Haddonstone (USA), Ltd.
Hastings Pavement Company
Hedberg Aggregates
Increte Systems, Inc.
Invisible Structures
Kasten Masonry Sales
London Tile Co.
MacDonald & Associates
Maine Millstones
Mortex Mfg. Co.
Normandy Imports, Ltd.
North American Stone Co.
PAVE TECH, Inc.
Rhodes Studio
Robinson Flagstone
Sierra Architectural Cast Stone
Stone Legends
Stowe Forge & Stone Works
Vermont Brick Mfg.
Wausau Tile, Inc.
Whitacre-Greer

PAVERS, Engraved

Cantera Especial
Durastone
Farrodyne U.S.A. Inc.
Fund Raisers, Ltd.
Images in Slate, Inc.
North American Stone Co.
Profit Resources
Wausau Tile, Inc.
Written in Stone

PAVERS, Porous/Grassy

Invisible Structures

PAVING, Imprinted Patterns

Artcrete, Inc.
Increte Systems, Inc.
PAVE TECH, Inc.
Vitricon, Inc.

PERGOLAS

Architectural Facades Unlimited
Artist in Iron
Bamboo & Rattan Works
Bamboo Fencer
Bamboo-Smiths
Blake Industries
Bow House/BowBends
Cantera Especial
City Visions/Heritage Garden Houses
DeAngelis Iron Work
Durastone
Fine Architectural Metalsmiths
Glass House
Island Arbors
Island Post Cap
Kroy Building Products
Lake Creek Garden Features
Landmark Studios
Metalmorphosis Studios
Mills & Co.
Mison Concepts, Inc.
Painted Garden
Romancing The Woods
Safari Thatch & Bamboo
Sitecraft
Smith & Hawken
Walpole Woodworkers
Wood Innovations of Suffolk

PLANTERS & URNS

A&M Victorian Decorations
Aardvark Antiques
Allen-Robbins Architectural Metals
Am-Dia, Inc.
Architectural Facades Unlimited
Architectural Pottery
Ark Concrete Specialties
Barbara Israel Garden Antiques
Barlow Tyrie, Inc.
Bellagio
Blake Industries
Bradstone
Brass Baron
Braun & Co., D.M.
Bufftech
Cantera Especial
Carlton Design
Chimney Pot Shoppe (MBE)
Classic Cast Stone of Dallas
Classic Terra Cotta Co.
Concrete Creations
Concrete Designs, Inc.
Copper Sculptures
Crosswinds International
DHS Designs
DMS Studios
Doty & Sons Concrete Products
DuMor, Inc.
Durastone
Earthstone Containers
East Park Garden Company
Echeguren Slate, Inc.
Environmental Features
Everwood Teak
Florentine Craftsmen
Garden Art International
Gladding McBean
Goodwin International
Great Gatsby's
Haddonstone (USA), Ltd.
Historical Arts & Casting
Huntco Supply, Inc.
Island Post Cap
Italgarden
Jaz Products
Kansas City Art Statuary
Keystone Ridge Designs
King Supply Co.
Lake Creek Garden Features
Lawrence Metal Products
Limestone Concept, Inc.
LTS Ceramics
Lunaform
Lynch & Sons, Inc.
MacDonald & Associates
Mills & Co.
Munder-Skiles
Nichols Bros. Stoneworks
Normandy Imports
North American Stone Co.
Pottery Mfg. & Distributing
Rising Sun Gardens
Robinson Consumer Products
Robinson Iron Corp.
Rockustics, Inc.
Romancing The Woods
Rossato Giovanni
Schiff Architectural Detail
Sciabbarrasi Corp.
Seal Reinforced Fiberglass
Seibert & Rice, Inc.
Shannon Stone Co.
Sierra Architectural Cast Stone
Sitecraft, Inc.
Smith & Hawken
Stewart Iron Works Co.
Stone Legends
Texas Metal Industries
Urban Archaeology
Vermont Outdoor Furniture
Vulcan Supply Corp.
Walpole Woodworkers
Wausau Tile, Inc.
Wood Innovations of Suffolk

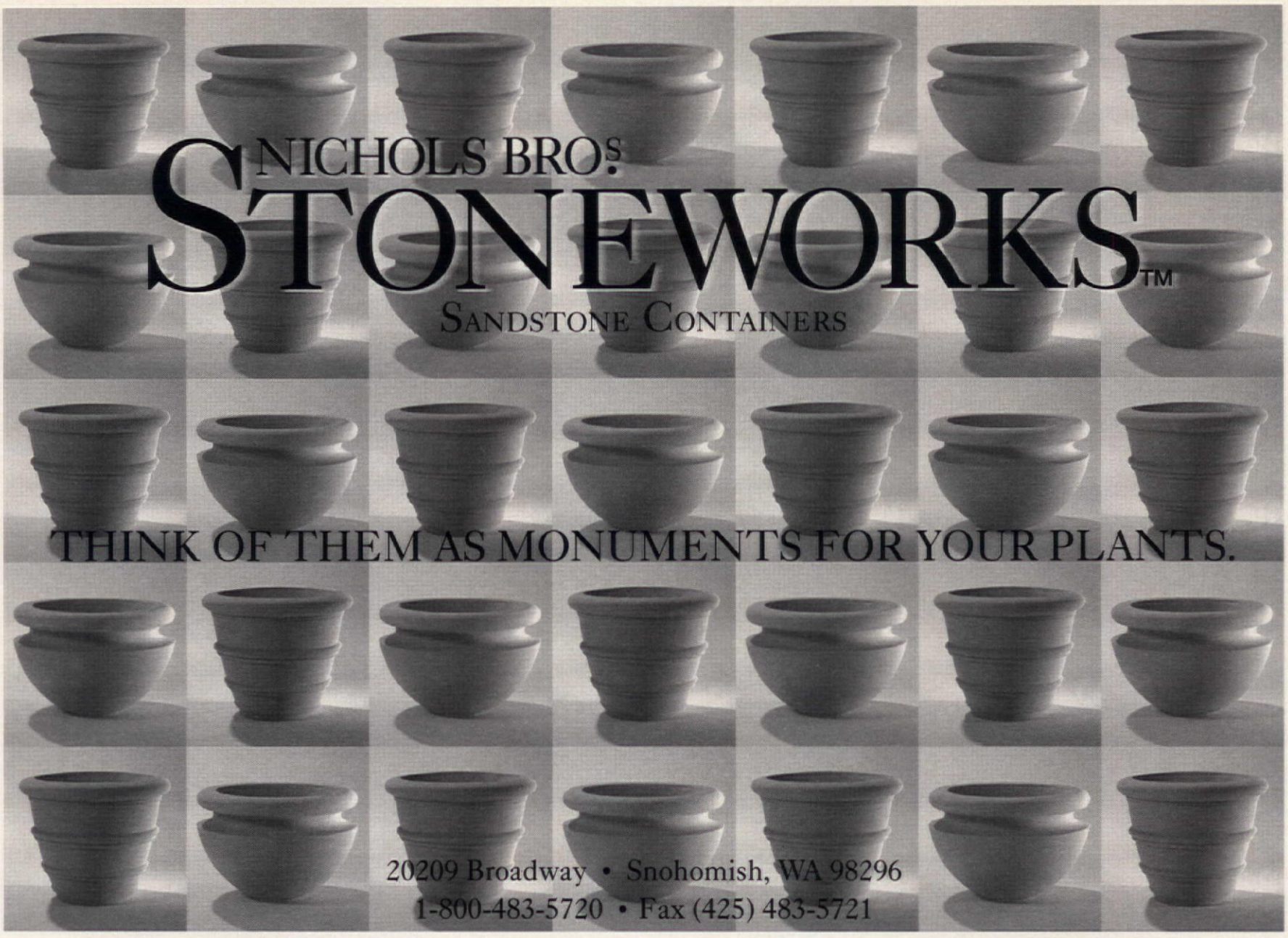
PLAYGROUND MATERIALS

Carousel Magic
Playground Environments
Vitricon, Inc.

POLES & POSTS, Lighting

A.J.P. Coppersmith & Co.
Allen-Robbins Architectural Metals
Am-Dia, Inc.
Arroyo Craftsman
Baxter & Co., J.H.
Blake Industries
Copper Sculptures
Crosswinds International
Durastone
Grant Massey Studio
Haas Woodworking Co.
HAPCO, Inc.
Hennessy House
Heritage Casting & Ironworks
Herwig Lighting
Hinkley Lighting
Historical Arts & Casting
Island Arbors
King Supply Co.
Lake Shore Industries
Lexington Standard Corp.
Lighting by Hammerworks
Mel Northey Co.
Metal Specialties Co. of Boston
Norwell Mfg.
Robinson Iron Corp.
Roy Electric Co.
Ryther-Purdy Lumber Co.

For full contact information on these companies, see the *SourceList* on pp. 126-140.



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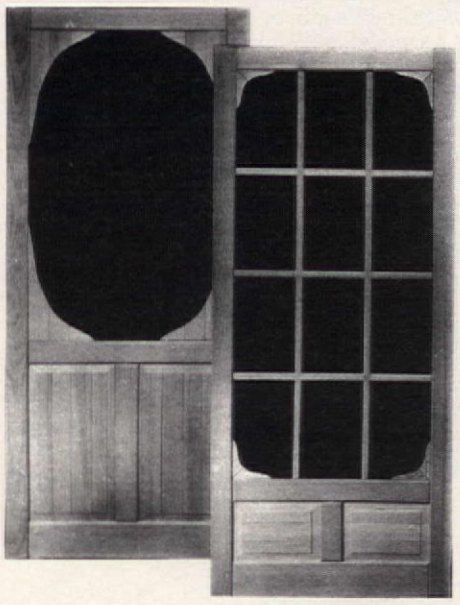
WOOD SCREEN DOORS



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WRITE IN NO. 5390

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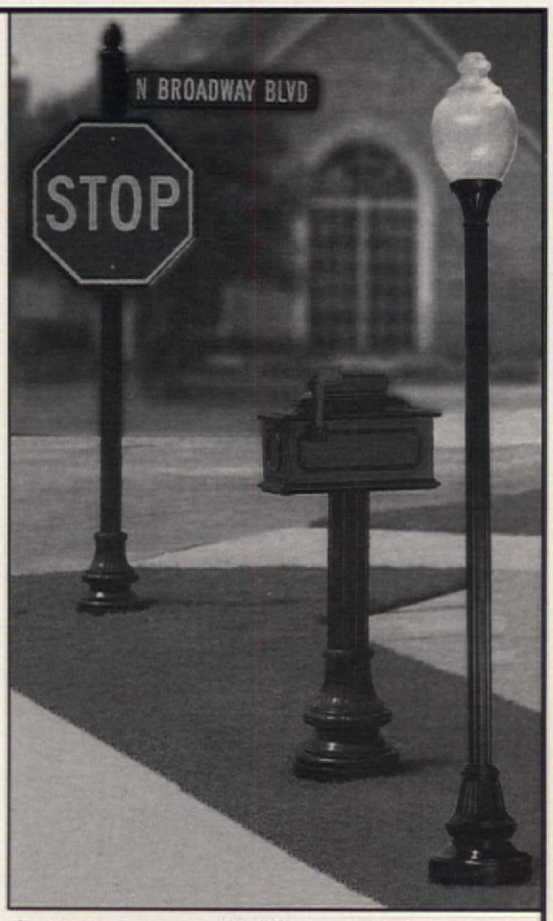

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WRITE IN NO. 73

Schiff Architectural Detail
Schwerd Mfg. Co., A.F.
Sentry Electric Corp.
Spring City Electrical
Sternberg Vintage Lighting
Stewart Iron Works Co.
Stowe Forge & Stone Works
Tennessee Fabricating
Texas Metal Industries
Traditional Concrete Products
Urban Archaeology
Walpole Woodworkers

POND LINERS

Decorative Cast Basalt Sales
Hedberg Aggregates
Patio Garden Ponds

POOLS

Bellagio
Federal Stone Industries
Florentine Craftsmen
Haddonstone (USA), Ltd.
Kasten Masonry Sales
Lynch & Sons, Inc.
Seal Reinforced Fiberglass

RAILINGS

Allen-Robbins Architectural Metals
Artist in Iron
Bamboo & Rattan Works
Bamboo Fencer
Bamboo-Smiths
Beckwith Designs
Boston Turning Works
Braun, J.G. Co.
Broken Anvil Forge
Bufftech
DeAngelis Iron Work
Durastone
Earth Care Products of L.I.
Ephraim Forge, Inc.
Fine Architectural Metalsmiths
Freedom Forge
Fypon, Ltd.
Gaby's Shoppe
Graney & Assoc. Metal Design
Haas Woodworking Co.
Historical Arts & Casting
Indital, USA
Island Arbors
Jefferson Mack Metal, Inc.
King Supply Co.
Kroy Building Products
L.B. Plastics
Lawler Foundry
Metalmorphosis Studios
Mison Concepts, Inc.
New Blue Moon Studio
Painted Garden
Pietrocola Iron Suppliers
Robinson Iron Corp.
Romancing The Woods
Royal Corinthian
Safari Thatch & Bamboo
Sargent's Forge
Schiff Architectural Detail
Stewart Iron Works Co.
Texas Metal Industries
Vixen Hill Gazebos
Vintage Woodworks
Walpole Woodworkers

RETAINING WALLS

Anchor Wall Systems
Centurion Stone Products
Champlain Stone, Ltd.
CON/SPAN Bridge Systems
Decorative Cast Basalt Sales
Durastone
Handy-Stone Corp.
Hedberg Aggregates
Kasten Masonry Sales
Oakfield Stone Co., Inc.
Stowe Forge & Stone Works
Versa-Lok Retaining Wall Systems

SCREEN DOORS

Coppa Woodworking
Cumberland Woodcraft Co.
Wood Factory
Wooden Screen Door Co.

SCULPTURE RESTORATION

Creative Sculpture & Restoration
Curtiss Studios
Historical Arts & Casting
Johnson Atelier
Landmark Studios
Lepoworks, Inc.
Modern Art Foundry
Royalston Arts Foundry
Schiff Architectural Detail
Shannon Stone Co.
Texas Carved Stone, Inc.

SCULPTURE, Custom

(see also the report on Stone Carving, pp. 10-17)

Archer Sculpture
Architectural Pottery
B&H Art in Architecture, Ltd.
Beckwith Designs
Bellagio
Brownstein Sculpture
Cantera Especial
Carlyle Sculptures in Bronze
Classic Terra Cotta Co.
Colson Studio
Creative Metal Design
Creative Sculpture & Restoration
Curtiss Studios
DiLeo Studio
Dixie Cut Stone & Marble
DMS Studios
Durastone
Ephraim Forge, Inc.
Expressions Studio
Figurative Art Studio
Fine Architectural Metalsmiths
Florentine Craftsmen
Garden Art International
Gareth Curtiss, Sculptor
Gerald Siciliano/Studio Design
Gladding McBean
Goodwin International
Graney & Assoc. Metal Design
J. Dub's
Jefferson Mack Metal, Inc.
Johnson Atelier
Kane Sculpture Studio
Tuck Langland
LepoWorks, Inc.
LeQuire, Alan
Limestone Concept, Inc.
MacDonald & Associates
MacQueen Sculpture
Marshall Gold Leaf Studios
Maxwell Art Studio
Metalmorphosis Studios
Michael Fannin, Stonewright
Modern Art Foundry
Nichols Bros. Stoneworks
Rossato Giovanni
Royalston Arts Foundry
Sandifer Sculpture
Sculpture Sight
Sculpture Works, Inc.
Seal Reinforced Fiberglass
Seibert & Rice, Inc.
Shannon Stone Co.
Smith Bronze Sculptures
Steigerwald Sculpture
Texas Carved Stone, Inc.
Torrens Sculpture Design
Vulcan Supply Corp.

SCULPTURE, Existing Designs

Aardvark Antiques
Architectural Pottery
Ark Concrete Specialties
Barbara Israel Garden Antiques
Beckwith Designs
Bellagio
Brass Baron
Cantera Especial
Carlyle Sculptures in Bronze
Dixie Cut Stone & Marble
Earthstone Containers
Figurative Art Studio
Fine Garden Art & Ornaments
Florentine Craftsmen
Garden Art International
Giust Gallery
Gladding McBean
Grant Massey Studio
Great Gatsby's
Haddonstone (USA), Ltd.
Italgarden
Kansas City Art Statuary
Tuck Langland
Lynch & Sons, Inc.
Marshall Gold Leaf Studios
Nichols Bros. Stoneworks
Normandy Imports
Rossato Giovanni
Royalston Arts Foundry
Smith Bronze Sculptures

SHELTER SYSTEMS, Bus Stops, etc.

Classic Recreation Systems
DeAngelis Iron Work
Historical Arts & Casting
Lacor/Streetscape
Vixen Hill Gazebos
Windsor Conservatories

SHUTTERS & SHUTTER HARDWARE

Lighting by Hammerworks
Old Smithy Shop
Peters & Son, Inc.
Vixen Hill Shutters

SIGNS & PLAQUES

Allen-Robbins Architectural Metals
Am-Dia, Inc.
Banner Creations
Beckwith Designs
Broken Anvil Forge
Chaenomeles, Inc.
Copper Sculptures
Crosswinds International
Custom Home Accessories
DeAngelis Iron Work
Designs in Tile
Dixie Cut Stone & Marble
Durastone
Eder Flagpole Co.
Farrodyne U.S.A. Inc.
Florentine Craftsmen
Gladding McBean
Grandview Aluminum Products
Graney & Assoc. Metal Design
GS Images
Haddonstone (USA), Ltd.
Hinkley Lighting
Historical Arts & Casting
Illahe Tileworks
Images in Slate, Inc.
Imperial Mailbox Systems
J. Dub's
Kaltech Industries Group, Inc.
La Haye Bronze Architectural
Lacor/Streetscape
Lake Shore Industries
Lynch & Sons, Inc.
Maguire Iron Corp.
MCA Sign Co.
Mel Northey Co.
Musgrove Studios Signmaking
North American Stone Co.
Profit Resources
Robinson Iron Corp.
Sargent's Forge
Schiff Architectural Detail
Shannon Stone Co.
Smith-Cornell Impressions
Stewart Iron Works Co.
Treen Graphics, Inc.
Vintage Wood Works
Walpole Woodworkers
Wausau Tile, Inc.

STAIRS, Cast & Forged Metal

Allen-Robbins Architectural Metals
Am-Dia, Inc.
Circle Redmont, Inc.
DeAngelis Iron Work
Fine Architectural Metalsmiths
Graney & Assoc. Metal Design
Historical Arts & Casting
Indital, USA
Jefferson Mack Metal
King Supply Co.
Lawler Foundry
Metalmorphosis Studios
Mison Concepts, Inc.
Ornamental Metal Inst. of N.Y.
Pietrocola Iron Suppliers
Robinson Iron Corp.
Schiff Architectural Detail
Steptoe & Wife
Stewart Iron Works Co.
Tennessee Fabricating
Texas Metal Industries

STAIRS, Stone & Cast Stone

A&M Victorian Decorations
Circle Redmont, Inc.
Classic Cast Stone of Dallas
Durastone
Lynch & Sons
Nichols Bros. Stoneworks, Ltd.
North American Stone Co.
Schiff Architectural Detail
Shannon Stone
Sierra Architectural Cast Stone
Stone Legends

STONE, Artificial Formations

Ark Concrete Specialties
Bradstone
Centurion Stone Products
Custom Cascades
Foam Works, Inc.
Rockustics, Inc.
Tropic Top

STONE, Boulders

Art Marble & Stone
Cantera Especial
Champlain Stone, Ltd.
Hedberg Aggregates
Oakfield Stone Co., Inc.
Porphyry USA, Inc.
Stowe Forge & Stone Works

STONE, Carved

(see also the report on Stone Carving, pp. 10-17).

Aardvark Antiques
Archaic
Architectural Pottery
B&H Art in Architecture, Ltd.
Barbara Israel Garden Antiques
Brownstein Sculpture
Cantera Especial
DiLeo Studio
Dixie Cut Stone & Marble
DMS Studios
Farrodyne U.S.A. Inc.
Garden Art International
Gerald Siciliano
Goodwin International
Limestone Concept, Inc.
MacDonald & Associates
MacQueen Sculpture
Maine Millstones
Michael Fannin, Stonewright
O'Sullivan Custom Etched Stone
Rising Sun Gardens
Rossato Giovanni
Shannon Stone Co.
Stone Forest
Stowe Forge & Stone Works
Texas Carved Stone, Inc.
Written in Stone

STONE, Cobblestones

Art Marble & Stone
Artcrete, Inc.
Cantera Especial
Centurion Stone Products
Champlain Stone, Ltd.

For full contact information on these companies, see the *SourceList* on pp. 126-140.

Aardvark Antiques

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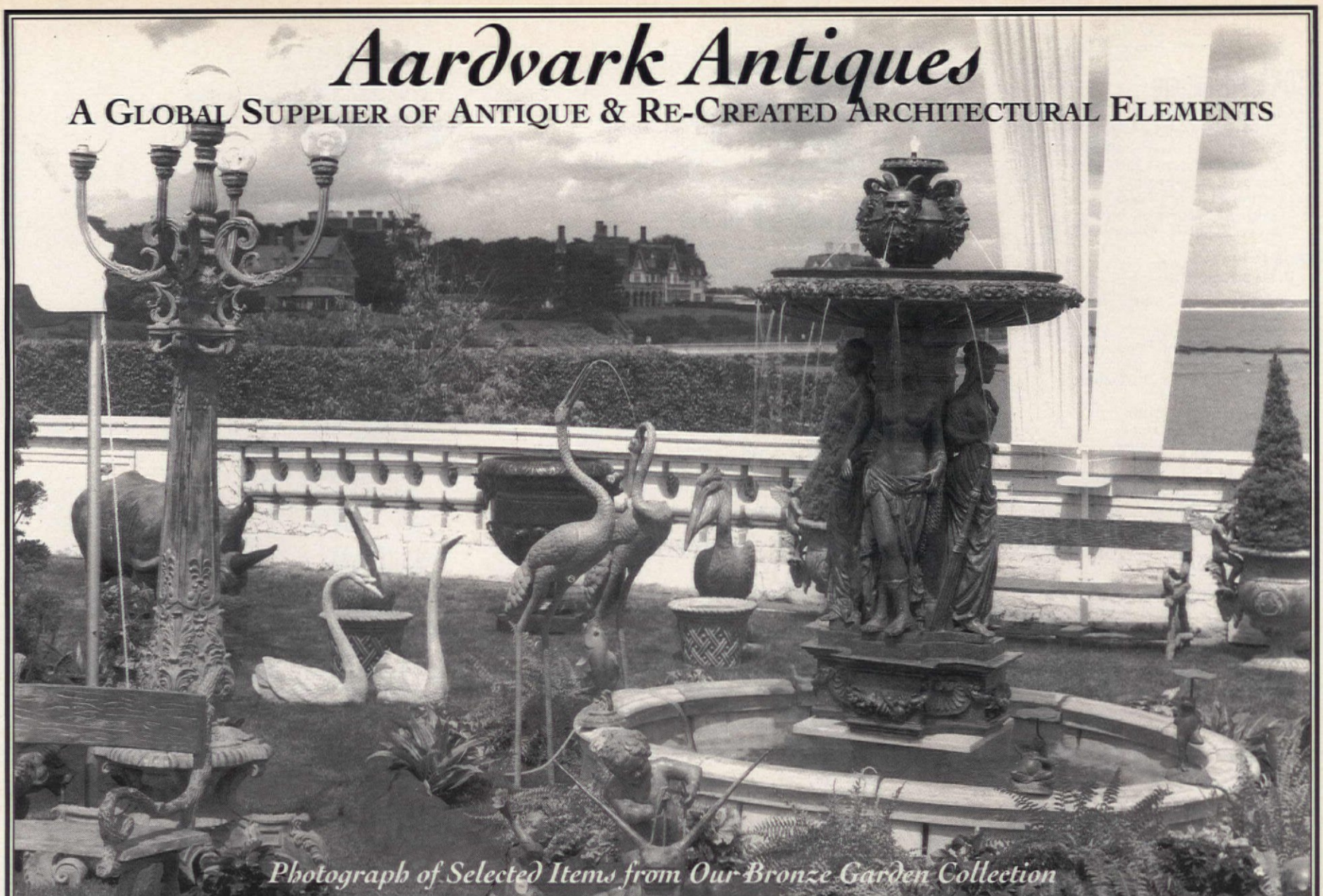

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WRITE IN NO. 9430

MacDonald & Associates
Oakfield Stone Co., Inc.
Stowe Forge & Stone Works

STONE, Fieldstone

Art Marble & Stone
Cantera Especial
Centurion Stone Products
Champlain Stone, Ltd.
Hedberg Aggregates
Kasten Masonry Sales
Oakfield Stone Co., Inc.
Stowe Forge & Stone Works

STONE, Flagstone

Art Marble & Stone
Artcrete, Inc.
Cantera Especial
Centurion Stone Products
Champlain Stone, Ltd.
Dixie Cut Stone & Marble
Echeguren Slate
Hedberg Aggregates
Images in Slate, Inc.
Kasten Masonry Sales
MacDonald & Associates
Oakfield Stone Co., Inc.
Porphyry USA, Inc.
Robinson Flagstone
Stowe Forge & Stone Works

STONE, Natural

Art Marble & Stone
Burlington Natstone, Inc.
Cantera Especial
Champlain Stone, Ltd.
Decorative Cast Basalt Sales
Dixie Cut Stone & Marble
DMS Studios
Hedberg Aggregates
Images in Slate, Inc.
Kasten Masonry Sales
Limestone Concept, Inc.
MacDonald & Associates
Oakfield Stone Co., Inc.
Porphyry USA, Inc.
Robinson Flagstone
Shannon Stone Co.
Stowe Forge & Stone Works

SUNDIALS

Aardvark Antiques
Allen-Robbins Architectural Metals
Alloy Casting Co.
Bellagio
Brass Baron
Broken Anvil Forge
East Park Garden Company
Ephraim Forge, Inc.
Florentine Craftsmen
Garden Art International
Graney & Assoc. Metal Design
Great Gatsby's
Haddonstone (USA), Ltd.
Historical Arts & Casting
Images in Slate, Inc.
La Haye Bronze Architectural
Lynch & Sons, Inc.
O'Sullivan Custom Etched Stone
Robinson Iron Corp.
Sargent's Forge
Schiff Architectural Detail
Shannon Stone Co.
Smith-Cornell Impressions
Stewart Iron Works Co.
Torrens Sculpture Design

SWEEPERS

Sweepster, Inc.

SWINGS, Porch & Garden

Centerville Swing Bench & Rocker
Vermont Outdoor Furniture

THATCH, Faux

Safari Thatch & Bamboo
Tropic Top/Symbold

THATCH, Natural

Bamboo & Rattan Works
Bamboo Fencer
Bamboo-Smiths
Frank's Tropical
Safari Thatch & Bamboo

TILE, Mosaic

Aardvark Antiques
Cantera Especial
Designs in Tile
Fishman Mosaics
Mattson McDonald Clay Studio
Stowe Forge & Stone Works
Terra Designs Tileworks
Urban Archaeology

TILE, Paving

Cantera Especial
Classic Terra Cotta Co.
Decorative Cast Basalt Sales
Designs in Tile
DMS Studios
Durastone
Earthstone Containers
Gladding McBean
Images in Slate, Inc.
Kasten Masonry Sales
Limestone Concept, Inc.
London Tile Co.
MacDonald & Associates
Mattson McDonald Clay Studio
Metropolitan Ceramics
Stowe Forge & Stone Works
Wausau Tile, Inc.

TILE, Pool & Fountain

Cantera Especial
Classic Terra Cotta Co.
Decorative Cast Basalt Sales
Designs in Tile
Federal Stone Industries
Illahe Tileworks
London Tile Co.
LTS Ceramics
MacDonald & Associates
MacQueen Sculpture
Mattson McDonald Clay Studio
Terra Designs Tileworks

TOOLS/HARDWARE/MATERIALS

Ball Consulting
Boro Lumber & Timber
McFeely's Square Drive Screws
Patina Finishes & Copper Coatings
PAVE-TECH, Inc.
Smith & Hawken
Sweepster, Inc.
Trow & Holden

TOPIARY FRAMES

Bosmere, Inc.
Cliff Finch's Zoo
Fine Architectural Metalsmiths
Gardenworks
Lynch & Sons, Inc.
Pottery Mfg. & Distributing

TRASH/ASH RECEPTACLES

Am-Dia, Inc.
Architectural Pottery
Blake Industries
Carlton Design
Concrete Designs, Inc.
Copper Sculptures
Doty & Sons Concrete Products
DuMor, Inc.
Earthstone Containers
Environmental Features
Fusion Coatings, Inc.
Garden Art International
Goodwin International
Graney & Assoc. Metal Design
Heritage Casting & Ironworks
Huntco Supply, Inc.
Ironsmith, Inc.
Keystone Ridge Designs
Lacor/Streetscape
Lawrence Metal Products
Robinson Iron Corp.
Romtec, Inc.
Ryther-Purdy Lumber Co.
Sitecraft, Inc.
Smith & Hawken
Upbeat, Inc.
Wausau Tile, Inc.

TREE GRATES

Allen-Robbins Architectural Metals
Broken Anvil Forge
DeAngelis Iron Work
Graney & Assoc. Metal Design
Historical Arts & Casting
Ironsmith, Inc.
Robinson Iron Corp.
Sargent's Forge
Spring City
Stewart Iron Works Co.
Tennessee Fabricating

TREE GUARDS

Allen-Robbins Architectural Metals
Beckwith Designs
Broken Anvil Forge
DeAngelis Iron Work
DuMor, Inc.
Environmental Features
Ephraim Forge, Inc.
Graney & Assoc. Metal Design
Historical Arts & Casting
Ironsmith, Inc.
Robinson Iron Corp.
Sargent's Forge
Schiff Architectural Detail
Stewart Iron Works Co.

TREILLAGE

Bamboo & Rattan Works
Bamboo Fencer
Bamboo-Smiths
Barbara Israel Garden Antiques
Broken Anvil Forge
Ephraim Forge, Inc.
Florentine Craftsmen
Graney & Assoc. Metal Design
Lake Creek Garden Features
Mison Concepts, Inc.
New Blue Moon Studio
Painted Garden
Romancing The Woods
Sargent's Forge
Sitecraft
Smith & Hawken
Sycamore Creek
Walpole Woodworkers
Wood Innovations of Suffolk

TURNINGS, Stone

DMS Studios
Limestone Concept, Inc.
MacDonald & Associates
Maine Millstones
Rossato Giovanni
Royal Corinthian
Shannon Stone Co.

TURNINGS, Wood

Anthony Wood Products
Boston Turning Works
Colonial Columns Mfg. Inc.
DiLeo Studio
Fagan Design & Fabrication
Haas Woodworking Co.
Island Post Cap
JMS Wood Products
Mohamad Wood Turning Co.
Vintage Wood Works
Wood Factory
Wood Innovations of Suffolk
Woodline Co.

UMBRELLAS

Barlow Tyrie, Inc.
Everwood Teak
Florentine Craftsmen
Goodwin International
Keystone Ridge Designs
Safari Thatch & Bamboo
Smith & Hawken
Vermont Outdoor Furniture

VINYL/PLASTIC FENCING & DECKING

Architectural Products by Outwater
Bufftech
Country Estate Fence
Earth Care Products
Fypon, Ltd.
Kroy Building Products
L.B. Plastics

WATERFALLS

Acquabella Fountains & Restorations
Brass Baron
Custom Cascades
Foam Works, Inc.
L.I. Fountain Supply Co.
Patio Garden Ponds
Seal Reinforced Fiberglass
Tropic Top/Symbold
Waterfalls Unlimited

WEATHERVANES

Aardvark Antiques
Allen Cupolas
Allen-Robbins Architectural Metals
Alloy Casting Co.
Am-Dia, Inc.
Beckwith Designs
Bellagio
Broken Anvil Forge
Conant Custom Brass Metalwork
Copper House
CopperCraft
Crosswinds Gallery
Custom Home Accessories
Denninger Weather Vanes & Finials
Eder Flagpole Co.
Ephraim Forge, Inc.
Florentine Craftsmen
Graney & Assoc. Metal Design
Historical Arts & Casting
J. Dub's
Kayne & Son Custom Hardware
Lighting by Hammerworks
Lynch & Sons, Inc.
Marshall Gold Leaf Studios
New England Cupola
NIKO Contracting Co.
Robinson Iron Corp.
Sargent's Forge
Stewart Iron Works Co.
Travis Tuck, Metal Sculptor
Vintage Wood Works
Vulcan Supply Corp.
W.F. Norman Corp.
Zack's Workshoppe

WOODWORK, Exterior

Anthony Wood Products
Bamboo & Rattan Works
Bamboo Fencer
Bamboo-Smiths
Bow House/BowBends
Coppa Woodworking
Cumberland Woodcraft
Haas Woodworking Co.
Island Post Cap
Lake Creek Garden Features
Mills & Co.
Safari Thatch & Bamboo
Vintage Wood Works
Walpole Woodworkers
Wood Innovations of Suffolk

For full contact information on these companies, see the *SourceList* on pp. 126-140.

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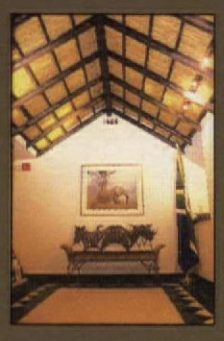

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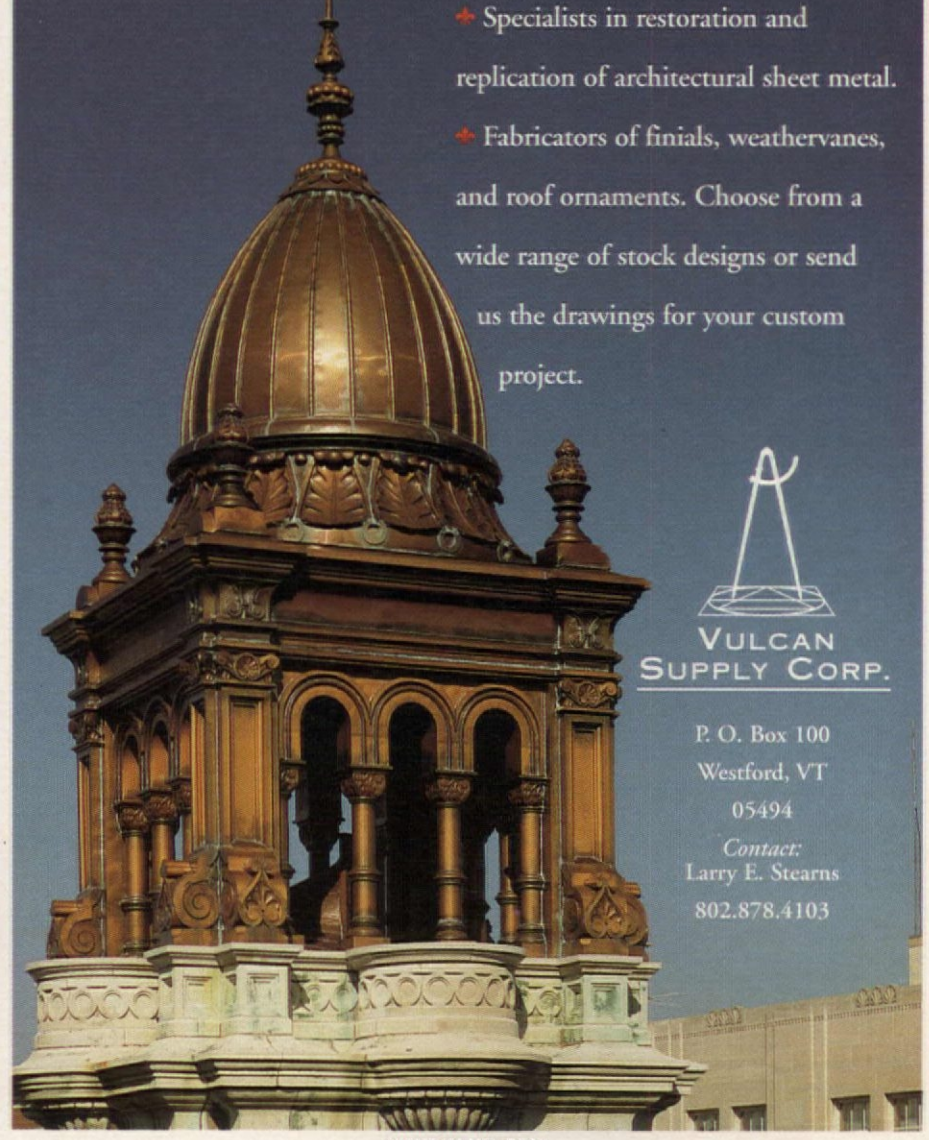

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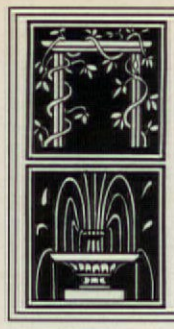

TRADITIONAL BUILDING'S *SourceList for* CSI# 02870

Landscape, Streetscape & Garden Products

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature
A&M Victorian Decorations, Inc. 2411 Chico Ave., Dept. TB South El Monte, CA 91733 626-575-0693; Fax: 626-575-1781	Manufactures many architectural elements in either gypsum or precast concrete: columns, molding, mantels, balustrades, wall caps, pavers, quoins, stair treads, planters, fountains, and gazebos; custom designs and finishes.	Free Write in No. 7470
A.J.P. Coppersmith & Co. 20 Industrial Pkwy., Dept. TB Woburn, MA 01801 800-545-1776; Fax: 617-932-3704	Hand-crafted lighting products for residential or commercial applications; lighting fixtures crafted from solid brass or copper. Cast aluminum lighting poles, also.	Free Write in No. 771
AAA American Flag Decorating Co. 40 West 37 St., Dept. TB New York, NY 10018 212-279-3524; Fax: 212-695-8392	Manufacturer of custom banners of all sizes, in runs from one to one million.	Free
Aardvark Antiques 475 Thames St., Dept. TB Newport, RI 02840 800-446-1052; Fax: 401-849-1591	Specializes in grand antique iron gates, fencing, lighting, and stained glass. Extensive selection of bronze fountains, urns, street lights, benches, statuary, and estate-size pieces.	Free Write in No. 718
Acquabella Fountains & Restorations 2118 Wilshire Blvd., Ste. 1048, Dept. TB Santa Monica, CA 90403 310-399-8256; Fax: 310-828-6585	Restored and refurbishes all types of water features and fountains. Specialist in bringing antique water features back to working condition.	Free Write in No. 459
AGW Systems 2490 Middlefield Road, Dept. TB Redwood City, CA 94063 800-238-2301; Fax: 800-438-2301	Company specializes in the design of automatic gate systems. Driveway gates custom made, manual or automated. Also, automation components for existing gates, with custom installation instructions and technical support.	Free Write in No. 281
Allen Cupolas 2242 Bethel Rd., Dept. TB Lansdale, PA 19446 215-699-8100; Fax: Same as phone	Complete selection of cupolas from red cedar, redwood, poplar, or primered white pine; 4-, 6-, or 8-sided wood or metal cupolas with pagoda, bell, or hip roofs in copper, brass, or aluminum; can be wired for lights.	Free Write in No. 790
Allen-Robbins Architectural Metals, Inc. 726 Stone Ave., Dept. TB Talladega, AL 35161 800-204-3858; Fax: 256-761-1967	Custom castings, both new and replications of historical styles; available in cast and ductile iron and alloys, including aluminum and bronze.	Free Write in No. 1005
Alloy Casting Co. 3900 Peachtree Rd., Dept. TB Mesquite, TX 75180 800-527-1318; Fax: 972-557-4727	Custom ornamental aluminum castings, including cresting, grilles, furnishings, and sculpted Victorian pickets. Custom capabilities: design through finishing. Also offers woodcarving, tooling, electroplating, and powder coating.	Free Write in No. 4050
Am-Dia, Inc. 16960 State Rd., 12 East, Dept. TB Findlay, OH 45840 800-483-7105; Fax: 419-424-1822	Cast-aluminum fountains, birdbaths, Victorian-style furniture, and street lighting. Also, antique furnishings and patio furniture.	Free Write in No. 95
Amazon Industries 377 SW 13th Ave., Dept. TB Pompano Beach, FL 33069 800-497-7191; Fax: 954-785-1098	Distributor of residential and commercial swing and slide gate operators. Also, all triggering and safety accessories, including card readers, radio controls, telephone entry systems, digital key pads, and intercom systems.	Free
Amdega & Machin Conservatories 3515 Lakeshore Dr., Dept. TB Saint Joseph, MI 49085 800-922-0110; No Fax	This line of elegant English imports includes gazebos, summer houses, covered seats, pavilions, and conservatories. Some custom work is available.	Free Write in No. 768
Anchor Wall Systems 6101 Baker Road, #201, Dept. TB Minneapolis, MN 55345 800-473-4452; Fax: 612-493-3344	Pinless and mortarless concrete segmental retaining walls for all types of landscaping projects, commercial to residential.	Free
Ancor Granite Tile 435 Port Royal West, Dept. TB Montreal, CANADA H3L 2C3 514-385-9366; Fax: 514-382-3533	Manufacturer of natural granite tile and modular panels for floors and walls, interior and exterior use.	Free Write in No. 120
Anthony Wood Products, Inc. P.O. Box 1081, Dept. TB Hillsboro, TX 76645 800-969-2181; Fax: 254-582-7620	Complete line of Victorian gingerbread, porch and newel posts, balusters, finials, fretwork, brackets, corbels, and gable trim.	Free Write in No. 14
Apollo Gate Operators 12019 Starcrest, Dept. TB San Antonio, TX 78247 800-226-0178; Fax: 210-545-2915	Manufacturer of swing and slide gate operators for residential or commercial use. Solar- and AC-powered systems available.	Free
Archaic P.O. Box 49096, Dept. TB Austin, TX 78765 512-473-8957; Fax: 512-473-8957	Stone masonry elements made for structural or decorative purposes; architectural stonecutting and carving; fountains, fireplaces, statuary, and more.	Free Write in No. 741
Archer Sculpture 275 West, 400 North, Dept. TB Salt Lake City, UT 84103 800-785-6531; Fax: 801-328-9150	Specialist in sculpting the human form in freestanding or bas-relief formats; from small interior pieces to monumental works.	Free Write in No. 1076
Architectural Facades Unlimited 1990 Stone Ave., Dept. TB San Jose, CA 95125 408-298-2758; Fax: 408-297-8014	Custom interior and exterior precast architectural ornamentation. On-site, full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, mantels, floor and wall fountains. Cement, plaster, GFRC, and GFRG.	Free Write in No. 1470
Architectural Fiberglass Corp. 1395 Marconi Blvd., Dept. TB Copiague, NY 11726 800-439-2000; Fax: 516-842-4790	Reproduction of original ornamentation, or replacement from a large selection of stock styles and sizes; lightweight, easy-to-install FRP; molded-in colors and texture; class-1 fire-retardant material.	Free Write in No. 6400
Architectural Glass, Inc. 4260 23rd Ave. West, Dept. TB Seattle, WA 98199 206-284-6947; Fax: 206-284-0774	Manufacturer of Renaissance Greenhouses and conservatories. Restoration of city of Seattle Conservatory at Volunteer Park, c. 1912.	Free
Architectural Pottery 15161 Van Buren, Dept. TB Midway City, CA 92655 714-895-3359; Fax: 714-898-5109	Importer of Italian hand-carved sandstone, English-style cast stone, handmade Italian and Greek pottery, and the company's own fiber-crete (FGRC).	Free Write in No. 20
Architectural Products by Outwater P.O. Box 347, Dept. TB Wood-Ridge, NJ 07075 800-631-8375; Fax: 800-888-3315	International stocking supplier of more than 20,000 ready-to-ship component products in numerous categories which include Interior/Exterior architetural millwork; columns; decorative moldings and trim; hardware; lighting; and much more.	Free Write in No. 4939
Architectural Reproductions 525 North Tillamook St., Dept. TB Portland, OR 97227 503-284-8007; Fax: 503-281-6926	Produces exterior work in solid concrete and cast stone, as well as glassfiber-reinforced thin-shell materials with integral finishes and applied coatings; shop drawings, modeling, and moldmaking services.	Free Write in No. 6130
Ark Concrete Specialties 713 Lehman, Dept. TB Houston, TX 77018 800-705-7865; Fax: 713-695-2001	Architectural concrete and cast stone, including pier caps, balustrades, rails, columns, address blocks, wall caps, keystones, window sills. Also, hollow rocks and concrete rocks for walls. Custom concrete manufacturing available.	Free

COMPANY	SPECIALTY	Literature
Arroyo Craftsman 4509 Little John St., Dept. TB Baldwin Park, CA 91706 626-960-9411; Fax: 626-960-9521	Manufactures solid-brass post- and column-mount, wall-mount, and hanging garden lights. Also, brass chandeliers, sconces, table lamps, and flush ceiling mounts in the Arts & Crafts tradition. Custom work a specialty.	Free Write in No. 733
Art Marble & Stone 5862 Peachtree Industrial Blvd., Dept. TB Atlanta, GA 30341 800-476-0298; Fax: 770-457-9638	Building stone, landscape materials, flagstones, and more cut and fabricated from natural stone, granite, marble, and limestone.	Free
Artcrete, Inc. 5812 Hwy. 494, Dept. TB Natchitoches, LA 71457 318-379-2000; Fax: 318-379-1000	Imprinted-concrete cast-in-place paving in faux-brick or faux-stone styles; templates can be used to mask off mortar joints prior to coloring concrete.	Free Write in No. 2140
Artist in Iron P.O. Box 207, Dept. TB Liberty Corner, NJ 07938 732-560-8199; Fax: Same as phone	Blacksmith artist specializes in the design and production of custom forged bronze and wrought iron masterpiece locks, hardware, accents, lighting, and architectural work; for high-end residential needs.	Free
B&H Art in Architecture, Ltd. 201 Allen St., #2C, Dept. TB New York, NY 10002 212-420-1584; Fax: 212-475-3489	Architecture, garden, and fine-art sculpture; design, can follow blueprint, photo, or existing model, live model; interior and exterior, any material and size.	Free Write in No. 1009
Ball & Ball Hardware 463 W. Lincoln Hwy., Dept. TB Exton, PA 19341 610-363-7330; Fax: 610-363-7639	Manufactures historically accurate copies of 18th-, 19th-, and 20th-century builder's hardware and lighting. Broad line of furniture hardware and fireplace tools; repairs and sells antique hardware; custom reproductions.	Free Write in No. 2930
Ball & Ball Lighting 463 W. Lincoln Hwy., Dept. TB Exton, PA 19341 610-363-7330; Fax: 610-363-7639	Manufactures historically accurate copies of 18th-, 19th-, and 20th-century interior and exterior lighting fixtures and lanterns. Has supplied lighting fixtures for some of the most important U.S. restoration projects.	Free Write in No. 7660
Ball Consulting 338 14th St., Suite 201, Dept. TB Ambridge, PA 15003 412-266-1502; Fax: 412-266-1504	Supplies Forton-modified-gypsum casting system for creating interior and exterior architectural and landscape elements. Consulting and technical service. GFRC and Polytek mold-making materials. Studio for training and prototyping.	Free Write in No. 7260
Bamboo & Rattan Works, Inc. 470 Oberlin Ave. S., Dept. TB Lakewood, NJ 08701 800-422-6266; Fax: 908-905-8386	Custom bamboo fencing, gates, and traditional Japanese water features, such as water spouts and deer chasers; half-round bamboo for water troughs. Also, mats and boards for wall coverings (slats, bark, cloth, etc.)	Free Write in No. 5830
Bamboo Fencer 179 Boylston St., Dept. TB Jamaica Plain, MA 02130 617-524-6137; Fax: 617-524-6100	Design services nationwide and elements including: fences, gates, trellises, arbors, pergolas, and paneling in bamboo; produced as part of a tropical rainforest reclamation program.	Free Write in No. 241
Bamboo-Smiths P.O. Box 1801, Dept. TB Nevada City, CA 95959 530-273-8818; Fax: 530-292-9460	Bamboo fences, gates, and garden structures in traditional Japanese and adapted styles. Also, furniture, screens, and utensils. Custom designs incorporating other materials and joinery techniques.	Free Write in No. 713
Banner Creations 1433 East Franklin Ave., Dept. TB Minneapolis, MN 55404 612-871-1015; Fax: 612-871-0058	Street banners and brackets. Full in-house production and design capabilities for all banner and flag needs.	Free
Barbara Israel Garden Antiques 296 Mt. Holly Rd., Dept. TB Katonah, NY 10536 914-232-4271	Antiques for the garden; urns, statuary, troughs, and more. In stone, cast metals.	Free Write in No. 697
Barlow Tyrie, Inc. 1263 Glen Ave., Ste. 230, Dept. TB Moorestown, NJ 08057 609-273-7878; Fax: 609-273-9199	High-end, all-weather teakwood outdoor and garden furnishings, including benches, chairs, tables, planters, and sun lounges; made in England, inventories in the U.S. for immediate shipment. Website: www.teak.com.	Free Write in No. 9540
Baxter & Co., J.H. P.O. Box 10797, Dept. TB Eugene, OR 97440 541-689-3020; Fax: 541-689-8319	Supplier of exterior wooden laminated and pressure-treated light standards and posts.	Free Write in No. 860
Beachside Lighting 46-163 Malina Pl., Unit 106, Dept. TB Kaneohe, HI 96744 800-405-6732; Fax: 808-247-8836	Manufactures heavy-duty, corrosion-resistant, copper and brass, low-voltage landscape lighting for homes and/or near-ocean applications.	Free
Beckwith Designs P.O. Box 61, Dept. TB Virginia City, NV 89440 702-847-7007; Fax: Same as phone	Specialist in the design and execution of fine wrought metal. Certified Master Smiths by the Institute of Industrial Artsmiths.	Free Write in No. 522
Bellagio 764 Miami Circle, Ste. 128, Dept. TB Atlanta, GA 30324 404-231-3566; Fax: 404-231-3792	Source for fountains, sculpture, garden accents, benches, and planters for commercial and home applications. Custom designs available in Italian limestone and sandstone.	Free Write in No. 466
Blake Industries P.O. Box 155, Dept. TB Abington, MA 02351 781-337-8772; Fax: 781-335-3004	Manufactures and distributes site amenities, including fountains, cast-metal light fixtures, chair stools, benches, clocks, and custom playground equipment. Specialize in shopping malls, food courts, and streetscapes. Custom wood seating.	Free Write in No. 2160
Boro Lumber & Timber 5757 47th St., P.O. Box 78, Dept. TB Maspeth, NY 11378 718-821-3600; Fax: 718-821-7521	One of the largest timber suppliers and custom milling facilities on the East Coast; timbers for bridge building, landscape, and marine applications.	Free Write in No. 1080
Bosmere, Inc. P.O. Box 363, Dept. TB Concord, NC 28026 888-784-1608; Fax: 704-784-1611	Regular and self-watering hanging baskets 10-20 in. dia. Wall and window baskets up to 48 in. long. Hayracks, three-tier fountains, and topiary baskets. Green wire baskets come plain, moss-lined, or coco-lined. Two- and three-dimensional wire topiary frames.	Free
Boston Turning Works 120 Elm St., Dept. TB Watertown, MA 02172 617-924-4747; Fax: 617-924-4949	Manufactures a line of wooden finials for fences and exterior use, and custom-turned balusters, posts, newels, columns.	Free Call for more information
Boston Valley Terra Cotta 6860 York Ave., Dept. TB Orchard Park, NY 14127 716-649-7490; Fax: 716-649-7688	Manufactures quality architectural terra cotta for restoration and new buildings. Site and survey work: photo documentation, drawings/CAD, computer spreadsheets, moldmaking, fine detail work, and color matching.	Free Write in No. 160
Bow House/BowBends P.O. Box 900, Dept. TB Bolton, MA 01740 978-779-6464; Fax: 978-779-2272	Maker of exotic garden structures, including bridges, gazebos, arbors, follies, privies, pavilions, and more.	Catalog $5

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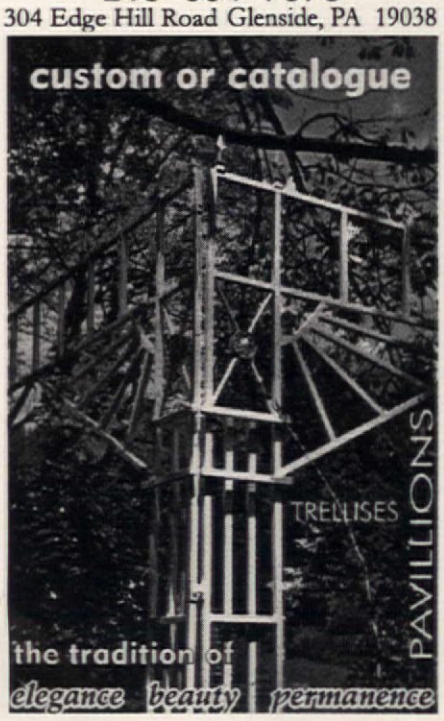

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WRITE IN NO. 6860

TRADITIONAL BUILDING'S *SourceList for* CSI# 02870

Landscape, Streetscape & Garden Products

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature
Bradstone P.O. Box 1060, Dept. TB Stouffville, Ontario, CANADA L4A 8A1 416-798-7809; Fax: 416-798-7819	Maker of paving, walling, and edging in Bradstone, a reconstructed-stone alternative to natural stone.	Free
Brandon Industries, Inc. 1601 W. Wilmeth Rd., Dept. TB McKinney, TX 75069 800-247-1274; Fax: 972-542-1015	Manufacturer/distributor of traditionally styled heavy cast-aluminum mailboxes, exterior post-mounted lanterns, and signage. Large in-stock inventory.	Free Write in No. 73
Brass Baron 10151 Pacific Mesa Blvd., #104, Dept. TB San Diego, CA 92121 800-536-0987; Fax: 800-536-0988	Solid-brass garden fountains and statuary, individually hand-cast by the lost-wax method; verdigris- or bronze-patina finishes.	Free Write in No. 200
Braun & Co., D.M. 13949 Dinard Ave., Dept. TB Santa Fe Springs, CA 90670 562-921-7344; Fax: 562-921-7959	Manufacturer of public-space furniture, including benches, tables, chairs, planters, trash receptacles, ash urns. Stock items as well as custom capability.	Free Write in No. 512
Braun, J.G. Co. 8145 River Dr., Dept. TB Morton Grove, IL 60053 800-323-4072; Fax: 847-663-0667	Supplier of architectural metals since 1887; stocks handrail sections in aluminum, bronze, and steel; glass railings; stamped steel ornament (husks, candle cups, etc.); decorative castings (treillage, rosettes, and finials); hollow metal spheres.	Free Write in No. 1390
The Brickyard, Inc. P.O. Box A, Dept. TB Harrisonville, MO 64701 816-380-3366; Fax: 816-887-5757	Source for authentic, antique clinker bricks with highly distinctive shapes, colors, and textures, ideal for constructing hearths and chimney facings. Will match samples.	Free Write in No. 3960
Bridge Builders 5942 Georgia Hwy., Dept. TB Franklin, NC 28734 888-874-9403; Fax: 704-524-5441	On-site builders of custom, solid-timber bridges from Southern pine with galvanized hardware. Specialists in bridge construction through ecologically sensitive areas such as wetlands, uplands, and drylands.	Free Write in No. 3991
Broken Anvil Forge P.O. Box 1321, Dept. TB Pigeon Forge, TN 37868 423-453-1933	Expert blacksmith designs and executes fine wrought metalwork. Garden gates, driveway gates, fencing, railings, and more.	Free Write in No. 523
Brosamer's Bells 207 Irwin St., Dept. TB Brooklyn, MI 49230 517-592-9030; Fax: 517-592-4511	This company, the country's largest dealer of pre-owned bells (over 40,000 lbs. in stock), buys, sells, and restores cast-bronze bells of all types, from yard, fire engine, and railroad bells, to enormous church and tower bells.	Free Write in No. 7130
Brownstein Sculpture P.O. Box 495, Dept. TB North Bennington, VT 05257 802-442-7174	Classical sculptor and stone carver produces figurative sculpture in marble or bronze.	Free
Bufftech - Div. of CertainTeed 2525 Walden Ave., Dept. TB Buffalo, NY 14225 800-333-0569; Fax: 716-685-1172	Manufactures and distributes maintenance-free fences, decks, and railings; multiple fence and railing designs to fit most residential and commercial applications; also, a complete line of lawn and garden products.	Free Write in No. 66
Burlington Natstone, Inc. 2701-C West 15 St., Ste. 505, Dept. TB Plano, TX 75075 972-985-9182; Fax: 972-612-0847	Stone is available in five different colors; can be supplied as flooring, paving, cladding, tops, and roofing.	Free
Busch Industries 900 East Paris Ave. SE, Ste. 304, Dept. TB Grand Rapids, MI 49546 616-957-3737; Fax: 616-957-9951	Busch is the North American licensee for England's Dorothea Ltd., a line of decorative and structural spandrels, brackets, columns, railings, etc., in authentic Victorian and Edwardian designs and finished with acrylic coatings.	Free Write in No. 694
Cantera Especial 15332 Antioch St., #343, Dept. TB Pacific Palisades, CA 90272 800-713-8577; Fax: 818-907-0343	Machine- and hand-carved products made from Cantera and Adoquin stones, limestone, and sandstone quarried from Mexico; can make all types of fountains, fireplace surrounds, columns, sculpture, table bases, vanities, pavers, urns, planters and custom products.	Free Write in No. 31
Carlton Design P.O. Box 2482, Dept. TB Hendersonville, NC 28793 888-693-8777; Fax: 828-693-1304	Manufacturer of solid-steel benches, wood benches, trash receptacles, ash urns, and other site furnishings. Also, galaxy-stone line of molded trash receptacles and ash urns. Wide variety of colors, textures, and finishes.	Free
Carlyle, Bobbie K. - Sculptures in Bronze 7366 Windwood Way, Dept. TB Parker, CO 80134 303-841-4334; Fax: 303-841-4280	Sculptor makes limited-edition, cast-bronze sculpture, bas reliefs, and also some fountains. Can work with individual designers, architects, and public entities for commissions of new work, from small to monumental.	Free
Carolina Solar Structures 8 Loop Rd., Dept. TB Arden, NC 28704 800-241-9560; Fax: 828-684-9977	Roof systems, pool enclosures, and glass structures; aluminum framing.	Free Write in No. 692
Carousel Magic P.O. Box 1466, Dept. TB Mansfield, OH 44901 419-526-4009; Fax: 419-526-4561	Maker of hand-carved, wooden theme carousels in any size or style.	Free
Centerville Swing Bench & Rocker Shoppe P.O. Box 211, Dept. TB Valencia, PA 16059 800-875-3724	Porch- and garden-swing specialist offers classic styles in cedar, cypress, oak, teak, jarrah, wicker, and redwood. Also, hammocks, rockers, chairs, and benches.	Free Write in No. 1160
Centurion Stone Products, Inc. 1325 Sixth Ave. North, Dept. TB Nashville, TN 37208 800-786-6352; Fax: 615-726-1795	Cast-stone building veneer that matches any color of natural stone; also, custom design of stone styles.	Free
Chadsworth's 1.800.Columns 277 North Front St., Dept. TB Historic Wilmington, NC 28401 1-800-COLUMNS; Fax: 910-763-3191	Custom and stock columns, pilasters, pillars, and posts; capitals; interior and exterior; plain or fluted; round, square, octagonal; all styles and sizes; wood, PolyStone, fiberglass; job-site delivery; 72-hour quick ship; worldwide shipping.	Free Write in No. 1580 for Polystone, No. 180 for Wood
Chaenomeles, Inc. P.O. Box 7011, Dept. TB Dallas, TX 75209 214-249-6785; Fax: 214-826-1693	Large hand-crafted copper mailboxes for wall or post mounting. Custom mailbox stands and torch-cut custom house numbers. Decorative cast-bronze flagstaff holders; patented flag-display system.	Free Write in No. 1360
Champlain Stone, Ltd. P.O. Box 650, Dept. TB Warrensburg, NY 12885 518-623-2902; Fax: 518-623-3088	Guillotined and hand-split granite, quartzite, sandstone, and limestone for building veneer, wall stone, flagging, step slabs, and landscape boulders.	Free Write in No. 4270
Charleston Lighting & Manufacturing, Inc. 208 N. Beltline Hwy., Dept. TB Mobile, AL 36607 800-661-9224; Fax: 334-473-0306	Handmade copper lanterns, gas and electric. Also, cast-aluminum street-lighting standards and mailbox standards.	Free Write in No. 772
Chimney Pot Shoppe (MBE) 1915 Brush Run Road, Dept. TB Avella, PA 15312 724-345-3601; Fax: 724-345-3601	Major importer of antique and new chimney pots (from 1850); selection of English and American pots with functional and ornamental uses.	Free Write in No. 410

COMPANY	SPECIALTY	Literature
Circle Redmont, Inc. 2760 Business Center Blvd., Dept. TB Melbourne, FL 32940 800-358-3888; Fax: 407-259-7237	Manufactures an extensive variety of structural, prefabricated, monolithic panel systems, incorporating glass block, glass pavers, glass bullets, composite laminate glass sheets, and insulated glass. Specialties include glass flooring, skylights, window walls, stair treads, complete structures, and more.	Free Write in No. 379
City Visions/Heritage Garden Houses 311 Seymour St., Dept. TB Lansing, MI 48933 517-372-3385; Fax: 517-482-7304	Elegant, functional component buildings in 16 meticulous historic styles, to be used as summer houses, tool sheds, gazebos, and conservatories; also, pergolas and colonnades. Kits can be assembled within two days.	Free Write in No. 9030
Classic Cast Stone of Dallas 3162 Miller Park Dr. N., Dept. TB Garland, TX 75042 972-276-2000; Fax: 972-272-6400	Custom manufactures cast-stone columns, capitals, and a wide range of other cast architectural ornament, such as copings, wall caps, and mantels.	Free Write in No. 2530
Classic Recreation Systems, Inc. 812 Copper Basin Rd., Dept. TB Prescott, AZ 86303 520-775-3307; Fax: 520-772-0858	Company fabricates vandal-resistant, all-steel shade structures, bus stops, and kiosks in a range of sizes and styles, including complimentary custom designs.	Free
Classic Terra Cotta Co. 601 S. Palm Ave., Dept. TB Alhambra, CA 91803 626-300-8489; Fax: Same as phone	Handmade, custom terra-cotta products in the style of the 16th-century Italian Renaissance, including hand-painted Majolica tile murals, planters, vases, urns, and sculptural bas-reliefs.	Free Write in No. 769
Cliff Finch's Zoo P.O. Box 54, Dept. TB Friant, CA 93626 209-822-2315; Fax: Same as phone	Topiary frames made of welded, heavy-gauge steel wire, powder-coated or hand-painted; standard frames (geometrics, animals, figures, or objects) as well as custom designs.	Free
Cole & Co., C.W. 2560 N. Rosemead Blvd., Dept. TB South El Monte, CA 91733 626-443-2473; Fax: 626-443-9253	Commercial and custom landscape lighting fixtures for commercial and institutional use; also, landscape lighting and steplights.	Free
Colebrook Conservatories 152 Stillman Hill Rd., Dept. TB Winsted, CT 06098 800-356-2749; Fax: 860-738-0429	Designers and fabricators of traditional glass buildings, roof lanterns, window walls, doors, and skylights using commercial-quality CBA class insulated glass and mahogany construction; finely detailed framing, sash, and trim.	Free Write in No. 382
Colonial Columns Mfg. Inc. 2102 Pasket Lane, Dept. TB Houston, TX 77092 713-681-0044; Fax: 713-681-3745	Supplies interior and exterior columns. Round, square, plain, or fluted. Can duplicate existing or historical columns; also, stain-grade for interiors. Wood, aluminum, and polymer composite columns.	Free Write in No. 33
Colson Studio 1666 Hillview St., Dept. TB Sarasota, FL 34239 941-953-5892; Fax: Same as phone	Architectural wall reliefs and fountains in fired clay; tiles in low-relief for pool and arbor patios. Monumental figurative works and bronze forms.	Free
CON/SPAN Bridge Systems P.O. Box 20266, Dept. TB Dayton, OH 45420 800-526-3999; Fax: 937-254-8365	Maker of a patented, modular precast system for total set-in-place construction of bridges, culverts, underground structures, and environmentally acceptable alternatives for underground containment.	Free
Conant Custom Brass, Inc. 270 Pine St., Dept. TB Burlington, VT 05401 800-832-4482; Fax: 802-864-5914	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Manufactures a traditional line of pendants, chandeliers, and sconces; many finishes and styles.	Free Write in No. 620
Concrete Creations 6428 Yarmouth Ave., Dept. TB Reseda, CA 91335 888-299-8273; Fax: 818-708-2110	Specialize in custom work and unique designs for landscapes, streetscapes, and interior design; giant urns, planters, pottery, trash receptacles, ash urns, benches, and mailboxes.	Free
Concrete Designs, Inc. 3650 S. Broadmont Dr., Dept. TB Tucson, AZ 85713 800-279-2278; Fax: 520-624-3420	Manufactures over 1,,600 precast-concrete and GFRC items, including planters, benches, and elements for enhancing landscape design: moldings, balustrades, and columns; custom work welcomed, shipped nationwide. Also, GFRC details; wide variety of colors and textures are available.	Free Write in No. 5190
Continental Bridge 8301 State Hwy. 29 North, Dept. TB Alexandria, MN 56308 800-328-2047; Fax: 320-852-7067	Manufacturers of custom-built steel truss and laminated timber bridges for ornamental or industrial use.	Free Write in No. 689
Continental Cast Stone Mfg., Inc. 22001 West 83 St., Dept. TB Shawnee Mission, KS 66227 800-989-7866; Fax: 913-422-7272	Architectural elements in cast stone made from natural sands, selected cements, and special aggregates to replicate limestone, sandstone, bluestone, granite, terra cotta, and other natural stones.	Free Write in No. 6940
Coppa Woodworking 1231 Paraiso Ave., Dept. TB San Pedro, CA 90731 310-548-4142; Fax: 310-548-6740	Wood screen doors in 125 styles; any size; also, arch-top doors and window screens. Species include Douglas fir, mahogany, and oak. Also, Adirondack furniture kits.	Free Write in No. 9600
Copper House 1747 Dover Rd., Rt. 4, Dept. TB Epsom, NH 03234 800-281-9798; Fax: 603-736-9798	Weathervanes made of copper in New Hampshire; finials custom made to spec; hand-crafted copper and brass lighting (standard and custom) for interior and exterior.	Catalog $4 deductible with order Call for more information
Copper Sculptures 5230 Hwy 25, Dept. TB Brandon, MS 39042 800-235-6725; Fax: 601-992-7099	Company offers finely hand-crafted copper lanterns, mailboxes, posts, and metal furniture.	Free Write in No. 300
CopperCraft, Inc. 2143 Joe Field Rd., #100, Dept. TB Dallas, TX 75229 800-486-2723; Fax: 972-484-3008	Firm's traditional metalworking skills and modern technology provide high-quality architectural sheetmetal: spires, finials, weathervanes, dormers, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, and more.	Free Write in No. 1490
Copperworks of Don Miller 206 S. Thomas, Dept. TB Orange, CA 92869 714-633-9308; Fax: Same as phone	Original raingutter art designed & produced by Don Miller; bronze gutter & downspout brackets; bronze & copper leader boxes; French goosenecks & curved gutters; ornate chain waterways & cisterns.	Free Write in No. 2000
Country Estate Fence P.O. Box 45, West Highway 30, Dept. TB Cozad, NE 69130 800-445-2887; Fax: 308-784-3216	Decorative, no maintenance PVC fencing, gazebos, and garden arbors. Over 20 different styles of fencing.	Free Write in No. 7180
Creative Metal Design 7935 Edgewood Church Rd., Dept. TB Frederick, MD 21702 800-520-5720; Fax: 301-473-5995	Specialist in custom metal sculpture for accenting landscape design.	Free
Creative Sculpture & Restoration 705 SE 11th St., Dept. TB Lee's Summit, MO 64081 816-554-1825; Fax: 816-525-7568	Specialist in conservation and restoration of historic buildings, monuments, sculpture, and fountains. Can recreate damaged or missing areas of terra cotta or stone.	Free Write in No. 2030

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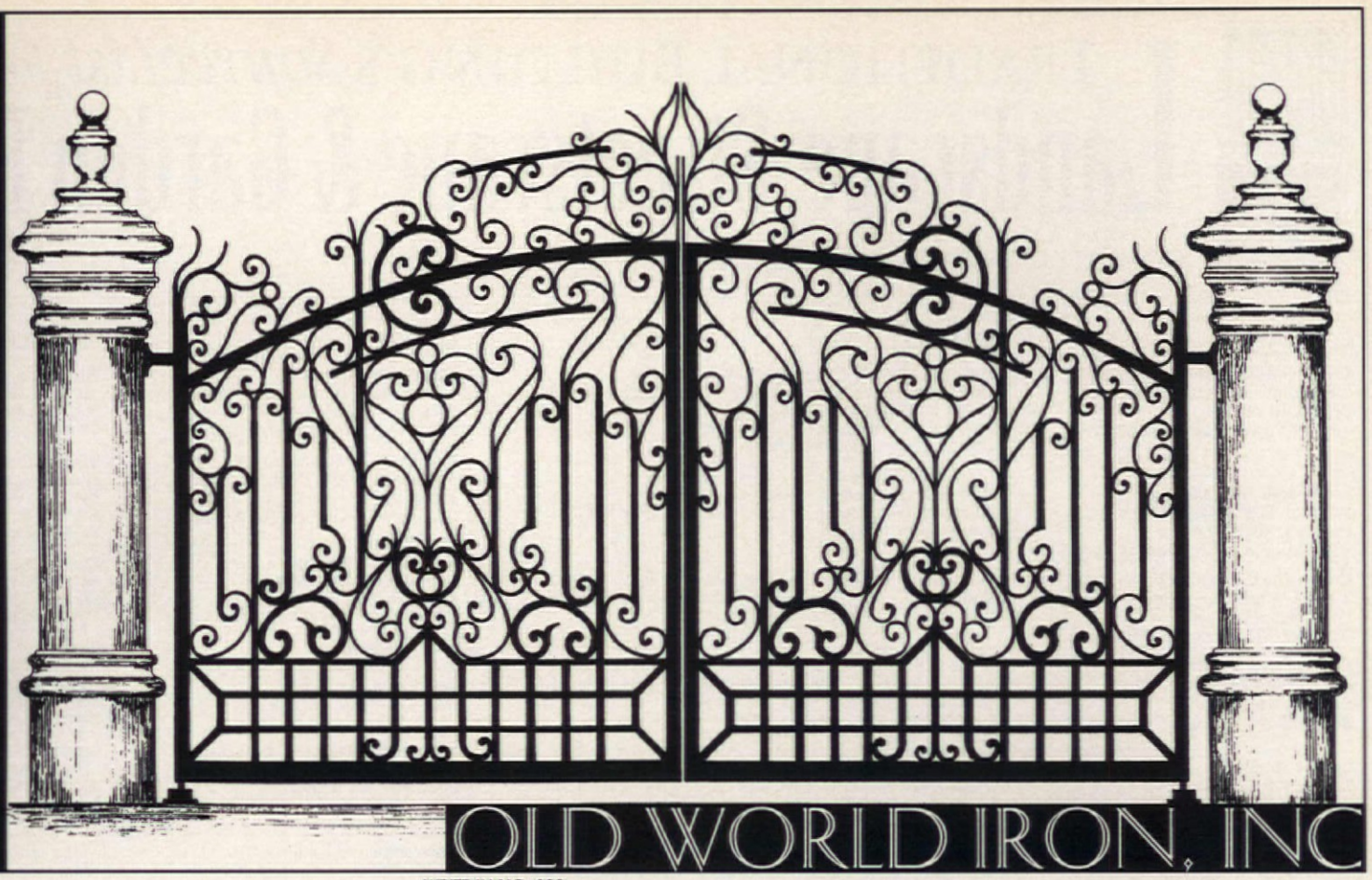

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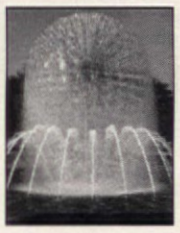

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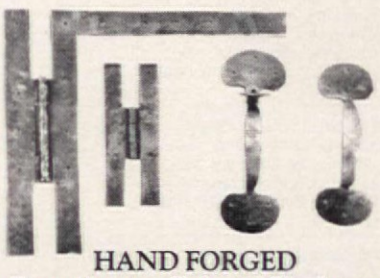

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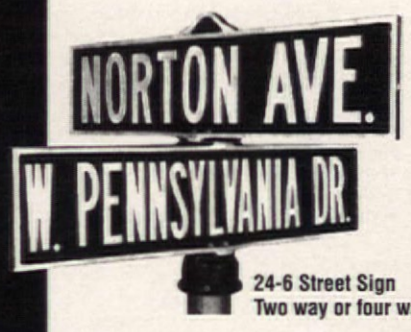

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COMPANY	SPECIALTY	Literature
Crosswinds Gallery 29 Buttonwood St., Dept. TB Bristol, RI 02809 401-253-0344; Fax: 401-253-2830	Over 1000 hard-to-find weathervanes. Wide variety of materials and prices. Custom crafting, historical replicas, gold leafing, patination. Also, finials, cupolas, turret caps. Extensive catalog. See www.crosswinds-gallery.com.	Free Write in No. 107
Crosswinds International P.O. Box 51873, Dept. TB Durham, NC 27717 919-489-6183; Fax: Same as phone	Importer of cast-aluminum streetlamps, lanterns, garden accessories, and solid cast-brass chandeliers from Holland.	Free Write in No. 173
Crown City Hardware Co. 1047 N. Allen Ave., Dept. TB Pasadena, CA 91104 626-794-1188; Fax: 626-794-2064	Wide selection of hardware, including glass knobs, bin pulls, door and window hardware; styles include Victorian and Arts & Crafts.	Free Write in No. 432
Cumberland Woodcraft Co. P.O. Drawer 609, Dept. TB Carlisle, PA 17013 800-367-1884; Fax: 717-243-6502	Architectural and period millwork, fixtures, and decorative treatments; commercial projects from ornate bars to conference tables; also carry carvings, carved signs, appliques, fretwork, grilles, and wood ceilings; also, screen doors.	Free Write in No. 1310
Curtiss Studios P.O. Box 497, Dept. TB Joseph, OR 97846 541-432-9105; Fax: Same as phone	Bronze sculpture studio and foundry; all sizes sculpture, fountains, commissions, point up, fine-art casting, architectural casting; various metals; wildlife and historical themes.	Free Write in No. 2690
Custom Cascades 2071 E. LaCadena, Dept. TB Riverside, CA 92507 800-420-3255; Fax: 909-686-1374	Designer/manufacturer of waterflow devices that create a perfect sheetlike fall of water; block wall and freestanding fountains; custom fabrications welcome. New product, manufactured rock, is available in various colors and sizes. Made with fiberglass and granite, with a natural look and feel.	Free Write in No. 1550
Custom Home Accessories 8550 Madison Ave., Dept. TB Fair Oaks, CA 95628 800-265-0041; Fax: 916-961-9707	Source for such custom accessories as mailboxes (home and commercial), including decorative and locking models. Address plaques in aluminum, bronze, brass, or porcelain. Historic markers, lamp posts, street signs. Also, weathervanes in copper or brass.	Free Write in No. 527
Cutler Mfg. 3240 Flightline Dr., Dept. TB Lakeland, FL 33811 941-644-3573; Fax: 941-646-4517	Classic, traditional, and contemporary collection boxes, mail chutes, and mail slots for hotel lobbies and office buildings; full line of indoor and outdoor centralized delivery boxes, parcel lockers, and cluster boxes.	Free Write in No. 85
DeAngelis Iron Work P.O. Box 350, Dept. TB South Easton, MA 02375 888-676-4766; Fax: 508-238-7757	Full-service fabricating facility for ornamental metalwork; from design through installation; consultant for the planning and contract-preparation process, also. Metals include cast iron, wrought iron, bronze, brass, aluminum, and stainless steel.	Free Write in No. 1023
Decorative Cast Basalt 110 McGraw Ave., Dept. TB Webster Springs, WV 26288 800-645-7187; Fax: 304-847-7113	Extremely durable stone. Environmentally safe natural-stone flooring, with no chemicals or other impurities. Also, ornamental stone for exteriors: pavers, retaining walls, pond liners, edging, and more. Website: www.decorativebasalt.com.	Free Write in No. 691
Denninger Weather Vanes & Finials 77 Whipple Rd., Dept. TB Middletown, NY 10940 914-343-2229; Fax: Same as phone	Crafts studio provides custom and standard weathervanes, banners, arrows, caps, and finials in natural, patinated, or gilded finish. Also, replication of antique rooftop ornaments. See: www.denninger.com	Free
Designs in Tile P.O. Box 358, Dept. TB Mt. Shasta, CA 96067 530-926-2629; Fax: 530-926-6467	Custom historic tiles and murals, suitable for interiors or exteriors. Victorian mosaic entries, Arts & Crafts-style hand-decorated pavers, pools, fountains, floors, fireplaces, molded trim. Custom work.	Free Write in No. 250
DHS Designs 86 Maryland Ave., Dept. TB Annapolis, MD 21401 410-280-3466; Fax: 410-280-8729	Source of American and Continental garden ornament, 18th-20th century: benches, urns, fountains, statuary. Also, reproductions in cast stone. Website: www.dhsdesigns.com.	Free Write in No. 773
Diamond Water Systems, Inc. 530 Main St., Dept. TB Holyoke, MA 01040 800-245-6601; Fax: 413-536-7267	Supplier of water-filtration and -disinfection equipment for fountains, ponds, and decorative and commercial pools. Also, engineering and consulting services for same.	Free Write in No. 2350
DiLeo Studio 504 E. Hampton St., Dept. TB Darlington, SC 29532 843-395-9453; Fax: Same as phone	Relief and fully three-dimensional carving in limestone and marble. Other services include wood carving, rubber moldmaking, and casting of plaster and resin ornament.	Free Write in No. 721
Dixie Cut Stone & Marble, Inc. P.O. Box 264, Dept. TB Bridgeport, MI 48722 800-968-8282; Fax: 517-777-9700	Custom stoneworks for all types of landscape and building projects; signs, coping, balusters, railings, steps, pavers, columns, and carvings. Catalog filled with natural stone products and a flagstone brochure. Catalog $10. Stone includes Indiana buff limestone, Texas cream, and Mankato gold.	Free flyer, catalog $10 Write in No. 279
DMS Studios 5-50 51st Ave., Dept. TB Long Island City, NY 11101 718-937-5648; Fax: 718-937-2609	Historically accurate, hand-carved marble and limestone fireplace mantels and other architectural and landscape ornament, statuary, and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 9100
Doty & Sons Concrete Products 1275 East State St., Dept. TB Sycamore, IL 60178 800-233-3907; Fax: 815-895-8035	Concrete litter receptacles in over 34 styles, recycling receptacles, products using recycled plastic lumber, 17 bench styles, 55 sizes of planters, bollards, and table sets. Finishes include exposed aggregate, sandblast, colored.	Free Write in No. 2090
DuMor, Inc. P.O. Box 142, Dept. TB Mifflintown, PA 17059 800-598-4018; Fax: 717-436-9839	High-quality site furnishings, including benches, waste receptacles, and planters in metal, wood, or recycled plastic for both indoors and outdoors. Custom design and manufacturing; off-the-shelf also available. Online at: www.dumor.com.	Free Write in No. 2180
Durastone 66 Milliken St., Dept. TB Portland, ME 04103 207-797-3552; Fax: 207-797-3800	Manufacturer of cast stone architectural precast and GFRC site furnishings, custom building elements, and historical reproductions. Custom colors and finishes simulate granite, limestone, terra cotta, and brownstone.	Free Write in No. 3650
Dutch Products & Supply Co. 166 Lincoln Ave., Dept. TB Yardley, PA 19067 215-493-4873; Fax: Same as phone	Galvanized-steel entrance gates and fencing; solid-brass chandeliers for churches, synagogues, etc.; one, two, or three tiers. Genuine Delft fireplace tile. Also, street lighting made of powder-coated aluminum.	Free
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Earth Care Products of Long Island 200-08 E. Second St., Dept. TB Huntington Station, NY 11746 516-427-3432; Fax: 516-427-7965	Recycled-plastic lumber and lumber products (HDPE); decking, picnic tables, and benches; will not absorb paint or stain; graffiti-resistant. For outdoor use only.	Free
Earthstone Containers 4139 E. Bell Rd., Dept. TB Phoenix, AZ 85032 602-971-8110; Fax: 602-971-0212	Precast-concrete pavers in various sizes, shapes, and colors; also, planters, containers, tables, benches, waste receptacles, and garden ornament.	Free
East Park Garden Company 14 East Park Rd., Dept. TB Pittsford, NY 14534 716-385-5739; Fax: 716-586-4117	Garden accessories, including traditional English garden troughs in many shapes and sizes, stone fountains, bird houses, garden spheres, and lanterns. Also, reproduction saddle stones and millstones in various sizes.	Free
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Eder Flagpole Co. 1000 W. Rawson Ave., Dept. TB Oak Creek, WI 53154 800-558-6044; Fax: 414-764-1039	Manufacturer and distributor of a wide selection of weathervanes and finials, stock and custom fabrication, in copper, aluminum, iron, and brass. Also, roof-mount flagpoles in aluminum, fiberglass, steel, and wood.	Free Write in No. 4290
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Ephraim Forge, Inc. 8300 W. North Ave., Dept. TB Frankfort, IL 60423 815-464-5656; Fax: Same as phone	Custom ironwork produced with traditional forge techniques and contemporary technologies. Work includes garden gates, sculpture, armillary spheres, sundials, and trellises. Will work to your drawings and specifications.	Free
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Expressions Studio P.O. Box 11321, Dept. TB Knoxville, TN 37939 423-212-3754; Fax: Same as phone	Custom sculpture and fountains in bronze and stone.	Free
FAAC International, Inc. 303 Lexington Ave., Dept. TB Cheyenne, WY 82007 307-635-1991; Fax: 307-632-8148	Source of automatic gate operators, enabling homeowners to enter and exit gates without having to leave their cars.	Free Write in No. 531
Fagan Design & Fabrication, Inc. 44 Railroad Ave., Dept. TB West Haven, CT 06516 203-937-1874; Fax: 203-937-7321	Custom hand-turned columns, cylinders, rope twists, spirals, etc. Also, capitals and other carvings. Can produce exact duplicates for restoration; hardwoods a specialty.	Free Write in No. 8210
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Figurative Art Studio 2004 Colfax St., Dept. TB Evanston, IL 60201 847-475-3216; Fax: Same as phone	Bronze sculpture on commission or from available portfolio. Monuments, busts, and figurative sculpture. From small-scale to monumental sizes. Specialist in public-art projects and realism.	Free Write in No. 478
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Fine Garden Art & Ornaments 45 High Rd., Bedrock Farm, Dept. TB Lee, NH 03824 603-659-2993; Fax: 603-659-6505	Source for one-of-a-kind garden ornaments; architectural salvage in terra cotta, iron, stone, and concrete. Also, planters, birdhouses, gazing-globe supports.	Free
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Florentine Craftsmen 46-24 28th St., Dept. TB Long Island City, NY 11101 718-937-7632; Fax: 718-937-9858	Hand-crafted garden ornaments, fountains (freestanding and wall-mounted), statuary, urns, planters, furniture, weathervanes, and accessories in lead, aluminum, iron, stone, and bronze. Most designs are classical in nature.	Free Write in No. 4390
Foam Works 532 Third St., Dept. TB Lake Elsinore, CA 92530 909-674-0998; Fax: 909-674-0245	Design, manufacture, and install architectural facades for interior and exterior surfaces, including themed structures; utilize lightweight and durable epoxy composites.	Free Write in No. 774
Four Seasons Sunrooms 5005 Veterans Memorial Hwy, Dept. TB Holbrook, NY 11741 800-368-7732; Fax: 516-563-4010	Wide variety of sunrooms, English-style conservatories, patio rooms, enclosures, and skylights. Exclusive "WonderGlass" keeps out summer heat and provides maximum insulation in winter.	Free Write in No. 910
Frank's Tropical 7252 Heil Ave., Dept. TB Huntington Beach, CA 92647 714-847-0919; Fax: 714-843-5646	Imported natural materials such as rattan, kooboo, and bamboo to construct your own designs; natural mattings for floors and walls, such as lahala, palm leaf, and seagrass. Also, bamboo garden furniture, fences, planters, and more.	Free
Freedom Forge 1505 Bulb Ave., Dept. TB Santa Cruz, CA 95062 408-427-3422; Fax: 408-427-3422	Fine-art metalwork combining hand-forged components, traditional joinery, and modern fabrication techniques this company calls 'architectural jewelry.'	Free Write in No. 2650
Fund Raisers, Ltd. P.O. Box 8836, Dept. TB Boise, ID 83707 800-288-6447; Fax: 208-377-9080	Custom engraved and infilled bricks, tiles or stone for community fundraising.	Free Write in No. 42

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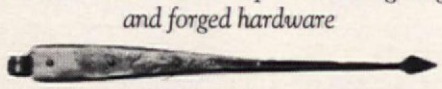

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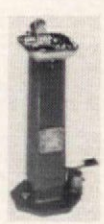

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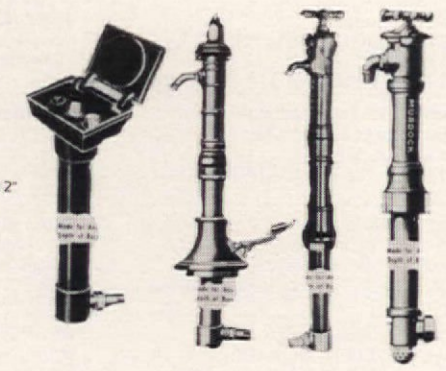

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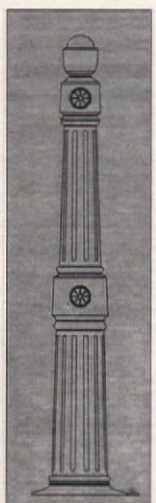

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WRITE IN NO. 9000

TRADITIONAL BUILDING'S *SourceList for* CSI# 02870

Landscape, Streetscape & Garden Products

COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature
Fusion Coatings, Inc. 1101 East Eighth St., Dept. TB Winona, MN 55987 800-367-9638; Fax: 507-452-9099	Source of PVC outdoor furniture and site amenities, with a patented top-coat process that eliminates UV degradation.	Free
Fypon, Ltd. P.O. Box 365, Dept. TB Stewartstown, PA 17363 800-537-5349; Fax: 717-993-3782	Offers a full line of over 4,000 molded architectural elements: window features, turnings, columns, brackets, and more in high-density polymer and other polymers. Line of load-bearing polymer/steel columns, maximum diameter 12 in.	Free Write in No. 6170
Gaby's Shoppe 1311 Dragon St., Dept. TB Dallas, TX 75207 214-748-6644; Fax: 214-748-7701	Hand-crafted wrought-iron furniture, tables, chairs, chandeliers, floor and table lamps, drapery hardware, and stair rails.	Free Write in No. 2520
Garden Art International 3007 Main St., Dept. TB Irvine, CA 92614 714-863-7001; Fax: 714-863-1804	Direct importer of custom and stock garden pieces in Italian terra cotta, cast iron, carved stone, cast stone, GFRC, and other materials: planters, urns, fountains, benches, gazebos, statues, columns, capitals, sundials, and more.	Free Write in No. 582
Gardenworks P.O. Box 216, Dept. TB Markleeville, CA 96120 530-694-2515; Fax: Same as phone	Custom and commercial topiary frames, constructed of steel or stainless steel. Hand-wrought metal accents available in copper, brass, bronze, lead, and aluminum; also, hand-shaped fiberglass accents.	Free
Gareth Curtiss, Sculptor P.O. Box 11851, Dept. TB Olympia, WA 98508 360-432-0735; No Fax	Bronze sculpture for both public and private commissions, including monuments, bas reliefs, fountains, garden sculpture, and architectural ornament.	Free Write in No. 185
Gerald Siciliano/Studio Design Associates 9 Garfield Pl., Dept. TB Brooklyn, NY 11215 718-636-4561; Fax: 718-636-4561	Original and reproduction sculpture in the classical tradition for private and institutional clients, in stone or metal.	Free Write in No. 187
Giust Gallery 1920 Washington St., Dept. TB Boston, MA 02118 617-445-3800; Fax: 617-937-3757	Sculpture reproductions, with molds taken from 19th-century European masterpieces. Reproductions are hand-cast, custom finished, and stamped with the Giust/Caproni hallmark.	Free Write in No. 698
Gladding McBean, a Div. of Pacific Coast Bldg. P.O. Box 97, Dept. TB Lincoln, CA 95648 800-776-1133; Fax: 916-645-1723	Architectural quality, custom, glazed terra cotta oil jars, planters, vases, urns, pedestals, benches, birdbaths, fountains, and garden ornaments. Custom designs and colors.	Free Write in No. 6010
Glass House 50 Swedentown Rd., Dept. TB Pomfret Center, CT 06259 800-222-3065; Fax: 860-974-1173	Custom manufactured, richly profiled wood frame conservatories; varied in shape, from single slope, gable, hip/valley, to octagonal. Also, lantern roofs, pyramidal skylights, and pergolas.	Free Write in No. 1870
Gloster Furniture Co. P.O. Box 1067, Dept. TB South Boston, VA 24592 800-932-2006; Fax: 804-575-1503	Plantation teak furniture; kiln-dried timber, mortise-and-tenon joinery, solid-brass fittings, with three basic thicknesses.	Free
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Grandview Aluminum Products P.O. Box 687, Dept. TB Grandview, IN 47615 812-649-2569; Fax: 812-649-2526	Cast-aluminum and -bronze plaques, individual letters, and custom logos; photometal plaques for cemetery markers, tree dedications, and more.	Free Write in No. 481
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COMPANY	SPECIALTY	Literature
Johnson Atelier 60 Ward Ave. Ext., Dept. TB Mercerville, NJ 08619 609-890-2777; Fax: 609-890-2771	Design consultation, pattern development, custom modeling, enlargements, moldmaking; lost-wax and sand casting for bronze, aluminum, and ductile iron. Fabrication in most metals. Restoration; delivery; installation.	Free Write in No. 7330
Kaltech Industries Group, Inc. 123 West 19 St., Dept. TB New York, NY 10011 212-229-0489; Fax: 212-229-0531	Manufacturer of interior/exterior signs, fabricated letters, and etched signs; brass, aluminum, and steel.	Free Write in No. 489
Kane Sculpture Studio 110B Tweed St., Dept. TB Pawtucket, RI 02861 401-723-8622; Fax: Same as phone	This full-service bronze foundry produces its own line of original decorative works and also executes commissions.	Free
Kansas City Art Statuary 3700 East 12 St., Dept. TB Kansas City, MO 64127 888-261-3929; Fax: 816-241-0876	Wholesale manufacturer of high-quality cast-stone garden decor, including planters, urns, fountains, benches, statues, and ornamental finials.	Free
Kasten Masonry Sales P.O. Box 468, Dept. TB Jackson, MO 63755 573-243-3591; Fax: 573-243-1030	Source of unit pavers and accessories.	Free
Kayne & Son Custom Hardware 100 Daniel Ridge Rd., Dept. TB Candler, NC 28715 828-667-8868; Fax: 828-665-8303	Custom hand-forged ferrous and non-ferrous metals: strap hinges, thumb latches to match hinges, entrance hardware, special fasteners, and more; cast brass or bronze, your choice of finish. Also repairs, reproductions, restoration.	Free flyer, catalog $5 Call for more information
Keystone Ridge Designs P.O. Box 2008, Dept. TB Butler, PA 16003 800-284-8208; Fax: 724-284-1253	Designs and manufactures site furniture, including benches, litter receptacles, food court seating, planters, ash urns, picnic tables, bike racks, bollards, and umbrellas. Protected with "Keyshield" powdercoating. Custom products to meet specs, in-house CAD designers.	Free Write in No. 728
Kichler Landscape Lighting 7711 E. Pleasant Valley Rd., Dept. TB Cleveland, OH 44131 216-573-1000; Fax: 216-573-1003	Manufacturer of a complete line of 12-volt and 120-volt landscape lighting products and accessories.	Free
King Luminaire Co. P.O. Box 266, Dept. TB Jefferson, OH 44047 800-268-7809; Fax: 905-632-8116	High performance decorative lighting and equipment including bollards and poles in aluminum, steel, cast ductile iron, and spun concrete. Also a full line of historic and contemporary decorative luminaires with special attention to lighting performance. Easy maintenance.	Free Write in No. 3410
King Supply Co. P.O. Box 271169, Dept. TB Dallas, TX 75227 800-542-2379; Fax: 214-388-1048	Wholesale supplier of ornamental and architectural metal components for wrought iron staircases, handrails, gates, fences, balustrades, furniture, mailboxes, doors, screens, awnings, and fireplace screens. Also aluminum lamp posts and urns.	Free Write in No. 418
Kroy Building Products, Inc. P.O. Box 636, Dept. TB York, NE 68467 800-933-5769; Fax: 402-362-6797	Vinyl fencing and accessories; supply fabricators with vinyl fence products to produce custom fencing.	Free Write in No. 82
L.B. Plastics P.O. Box 907, Dept. TB Mooresville, NC 28115 800-752-7739; Fax: 704-664-2989	Maintenance-free PVC decking, railings, fencing, and post cladding.	Free
La Haye Bronze Architectural P.O. Box 2319, Dept. TB Corona, CA 91718 800-523-9544; Fax: 800-793-3801	This company has produced custom signage and metalwork for over 150 years in cast bronze and aluminum. Seals, logos, letters, reliefs, and custom artwork. Services include designs and pattern making.	Free Write in No. 9160
Lacor/Streetscape 505 W. Dunlap Ave. #1A, Dept. TB Phoenix, AZ 85021 602-995-9272; Fax: 602-995-0928	Manufacturer of quality landscape furniture that combines bent pipe and perforated steel to create transit shelters, seating elements, trash receptacles, and streetscape accessories. Custom work available.	Free Write in No. 727
Laguna Lightcraft 32241 Avenida Los Amigos, Dept. TB San Juan Capistrano, CA 92675 949-496-0360; Fax: 949-493-8777	Landscape and garden lighting; many Arts & Crafts-style fixtures.	Free Write in No. 198
Lake Creek Garden Features, Inc. P.O. Box 118, Dept. TB, Dept. TB Lake City, IA 51449 712-464-8924; Fax: 712-464-3098	Manufactures custom wooden garden-related products and site furnishings for landscape, or streetscape; planter boxes, obelisks, plant stands, and gazing-globe stands. Quantity custom-work requests invited. Cedar, oak, and other woods.	Free Write in No. 3640
Lake Shore Industries P.O. Box 59, Dept. TB Erie, PA 16512 800-458-0463; Fax: 814-453-4293	Manufactures custom cast-aluminum signs and plaques. Specialist in street signs, town seals, historical markers, and custom work.	Free Write in No. 8730
Landmark Studios 59 Lower Kingtown Rd., Dept. TB Pittstown, NJ 08867 908-730-8895; Fax: 908-730-8851	Custom modeling, moldmaking, and casting. Replication of stone, terra cotta, and plaster. On-site (exterior and interior) restoration of existing stone and plaster work. Field molds taken and 'dutchman' repairs made.	Free Write in No. 5000
Tuck Langland, Sculptor 12632 Anderson Rd., Dept. TB Granger, IN 46530 219-272-2708; Fax: Same as phone	Garden figures in bronze; indoor sculptures. Graceful dancers and allegorical figures available in limited editions. Or commission a unique work. Other capabilities include portrait busts, nudes, and monuments.	Free Write in No. 764
Lawler Foundry Corp. P.O. Box 320069, Dept. TB Birmingham, AL 35232 205-595-0596; Fax: 205-595-0599	Offers 1200 ornamental metal components: fences and gates mainly in Victorian styles, newel posts; continuous designs and artistic steel forgings. Fabricator will design, fabricate, install. Complete Catalog: $10.00.	Free Write in No. 271
Lawrence Metal Products P.O. Box 400-M, Dept. TB Bay Shore, NY 11706 800-441-0019; Fax: 516-666-0336	Manufacturer of crowd-control products and lobby accessories. Also, custom fabrication of brass, chrome, and stainless bar railings; custom manufacture of signs, frames, and sign stands.	Free
Leisure Woods, Inc. P.O. Box 177, Dept. TB Genoa, IL 60135 815-784-2497; Fax: 815-784-2499	Gazebo kits made with clear Western red cedar, available in many railing, valance, and roof styles. Gazebos from 10 to 28 ft. Kits are shipped direct to jobsite in pre-assembled wall panels and shingled roof panels.	Free Write in No. 735
LepoWorks, Inc. 4640 Allentown Rd., Dept. TB Lima, OH 45807 419-339-5370; Fax: 419-339-2787	Designs private, public, and institutional artwork; interior and exterior works in a multitude of materials, including metal and wood; wood-carving services.	Free Write in No. 1034
LeQuire, Alan 1222 Fourth Ave. N., Dept. TB Nashville, TN 37208 615-242-5408; Fax: 615-367-4525	A figurative sculptor and portrait artist, LeQuire's themes focus on the classical and Renaissance. Monumental, miniature, and life-sized work in virtually all sculpture materials.	Free Write in No. 5230

COMPANY	SPECIALTY	Literature
Lexington Standard Corp. 20805 Eaton Ave., Dept. TB Farmington, MN 55024 800-899-7577; Fax: 612-463-3349	Company's "Heritage Series" of aluminum lightpoles offers four base designs and unlimited round tapered tubing shapes; available in 12 standard powder-paint finishes and numerous custom colors.	Free Write in No. 199
Liberty Brass Turning Co. 38-01 Queens Blvd., Dept. TB Long Island City, NY 11101 718-784-2911; Fax: 718-784-2038	Thousands of solid-brass and -aluminum turned-metal parts: lamp finials, couplings, spacers, balls, check rings, furniture, and display fittings. Custom parts; large and small orders.	Free Write in No. 8440
Liberty Ornamental Products 872 E. Trevitt St., Dept. TB Bryan, OH 43506 800-636-5470; Fax: 419-636-2365	Wide range of ball tops, caps, spears, shoes, etc., for fabricating fences, gates, and other ornamental metal assemblies. Parts in sizes from 1/4 to 3 in., in #3 zinc with a non-rusting pewter finish.	Free Write in No. 5340
Lighting by Hammerworks 6 Fremont St., Dept. TB Worcester, MA 01603 508-755-3434; Fax: Phone + ,51	Reproduction lighting fixtures: chandeliers, wall sconces, wall and post lanterns made in copper, brass, and tin. Also, hand-forged door hardware, shutter hinges and dogs, slide bolts; exact reproductions.	Free Write in No. 5090
Limestone Concept, Inc. 1438 S. Robertson Blvd., Dept. TB Los Angeles, CA 90035 310-278-9829; Fax: 310-278-9651	Hand-carved limestone fireplaces, fountains, columns, balustrades, ornamentation, and sculptures. Also imports a variety of French limestone flooring, tiles, and slabs in many colors and textures. Master carvers have worked on historic French chateaux. Carving from Roman and Gothic to contemporary. Website: www.limestoneconcept.com	Free Write in No. 5390
London Tile Co. 65 Walnut St., Dept. TB New London, OH 44851 419-929-1551; Fax: 419-929-1552	Glazed and unglazed floor, wall, and counter tiles. Tiles 3/8 in. thick, shipped in 10-sq.ft. packages with 3/8-in. mortar joint. Pavers manufactured in 3/8- up to 1-1/2-in. thickness.	Free Write in No. 500
London's Split-Rail Fencing Box 376, Dept. TB Weippe, ID 83553 208-435-4719; Fax: 208-435-4646	Maker of split-rail garden fences, water wheels, wishing wells, windmills, trellises, and flower boxes, all hand-crafted from Western red cedar.	Free
Long Island Fountain Supply Co. 10-2 Drew Ct., Dept. TB Ronkonkoma, NY 11779 516-467-5115; Fax: 516-467-5295	Suppliers of fountain nozzles, pumps, lighting, and self-contained prefabricated fountains; designers of complete fountain effects.	Free Write in No. 4990
LTS Ceramics 1224 Bell Ave., Dept. TB Fort Pierce, FL 34982 561-465-5445; Fax: 561-465-4553	Manufacturer and distributor of handmade tiles and pottery in ceramic and terra cotta, including Mediterranean, Antique, Classic, and Designer patterns. Also, hand-carved, decorative limestone columns imported from Tunisia.	Free
Lunaform P.O. Box 189, Dept. TB Sullivan, ME 04664 207-422-0923; Fax: Same as phone	Maine studio specializes in handmade, all-weather garden containers, urns, and fountains; all pieces are hand-turned, steel-reinforced concrete, available in a wide variety of natural colors and textural finishes. All are built to last and withstand the elements.	Free Write in No. 7620
Lynch & Sons, Inc. P.O. Box 488, Dept. TB Wilton, CT 06897 203-762-8363; Fax: 203-762-2999	Top-of-the-line fabricators with an extensive catalog of fountain designs, garden ornament, site furniture (including full park-bench manufacturing capabilities), weathervanes, finials, and gazebos. Custom capabilities.	Free Call for more information
MacDonald & Associates 304 Merrilee Pl., Dept. TB Danville, CA 94526 800-969-4769; Fax: 925-855-0382	Designer and supplier of granite, marble, and sandstone landscape/site products, including: pavers, tile, coping, cobblestones, curbs, bollards, spheres, fountains, waterbasins. Also, Oriental lanterns, pagodas, and waterbasins.	Free Write in No. 752
MacQueen Sculpture P.O. Box 12414, Dept. TB San Luis Obispo, CA 93406 805-543-4493; Fax: 805-543-8154	Sculpture studio produces garden sculpture and fountains; bronze benches, some with figures attached; figures of children holding a bird bath; figurative bronze as fountains; glass and bronze balustrades.	Free Write in No. 715
Maguire Iron Corporation 215 22nd St., Dept. TB Richmond, CA 94801 510-234-7569; Fax: 510-232-7519	Door, window, and other builders' hardware: push plates, kick plates, hooks, etc., in wrought iron, pewter, brass, bronze, and much more. Patterns from 17th century to Art Deco; custom work.	Free Write in No. 7600
Maine Millstones P.O. Box 228, Dept. TB West Southport, ME 04576 207-633-6091; No fax	Manufacturer of hand-carved traditional granite millstones; all sizes and patterns available.	Free Write in No. 4440
Marshall Gold Leaf/Pittsburgh Art Conservation 101 Harmony Rd., Dept. TB Wexford, PA 15090 800-340-9475; Fax: 724-935-5017	Conservation of murals, sculpture, fountains, reliefs, and monuments with gold leaf. Conservation of ornamental iron, brass, copper, zinc, lead, stone, marble, and wood. Presently restoring historic monuments for the city of Dallas, Tex. and Buffalo, NY.	Free
Mattson McDonald Clay Studio P.O. Box 99, Dept. TB Seaview, WA 98644 360-642-4727; Fax: Same as phone	Studio uses stoneware clays with added minerals to create gardenware such as saucered planter pots, hose guides, wall planters, and bonsai containers. Also, architectural ware such as sinks, tile, finials, columns, and lighting.	Free
Maxwell Art Studio 2004 Colfax St., Dept. TB Evanston, IL 60201 847-475-3216; Fax: 847-475-3216	Bronze sculptures for gardens or grounds, by renowned sculptor. Highest-quality bronze castings; commissioned works to fit all requirements.	Free Write in No. 753
MCA Sign Co. 681 First St., Box 555, Dept. TB Massillon, OH 44646 330-833-3165; Fax: 330-832-9771	Company designs, engineers, manufactures, and is a fulfillment center of interior and exterior image, graphic, pop display, store decor, and signage systems.	Free
McFeely's Square Drive Screws P.O. Box 11169, Dept. TB Lynchburg, VA 24506 800-443-7937; Fax: 800-847-7136	Square-drive screws eliminate splitting, nail backout, and fastener failure common to nailed or spiked landscape timber installations. Sizes to 12 in. with corrosion coating and self-drill point. Over 350 screw types and tools.	Free Write in No. 203
Mel Northey Co. 303 Gulf Bank Rd., Dept. TB Houston, TX 77037 800-828-0302; Fax: 281-445-7456	Large source for historic antique reproduction light poles, luminaires, mailboxes, and street sign posts. All products are made of a heavy-duty, rust-free, cast-aluminum.	Free Write in No. 53
Melton Classics, Inc. P.O. Box 465020, Dept. TB Lawrenceville, GA 30246 800-963-3060; Fax: 770-962-6988	Classical & custom columns, round or square profiles, plain or fluted shafts, all sizes; in fiberglass, synthetic stone, poly/marble composite, or wood. MarbleTex synthetic-stone balustrades, custom colors; custom designs available.	Free Write in No. 4100
Metal Specialties Co. of Boston 20 Industrial Pkwy., Dept. TB Woburn, MA 01801 888-675-4834; Fax: 781-932-3704	Commercial street lighting. Solid copper/brass products with many optional finishes. H.I.D. lighting options include metal halide, high-pressure sodium, mercury vapor, or standard incandescent.	Free Write in No. 722

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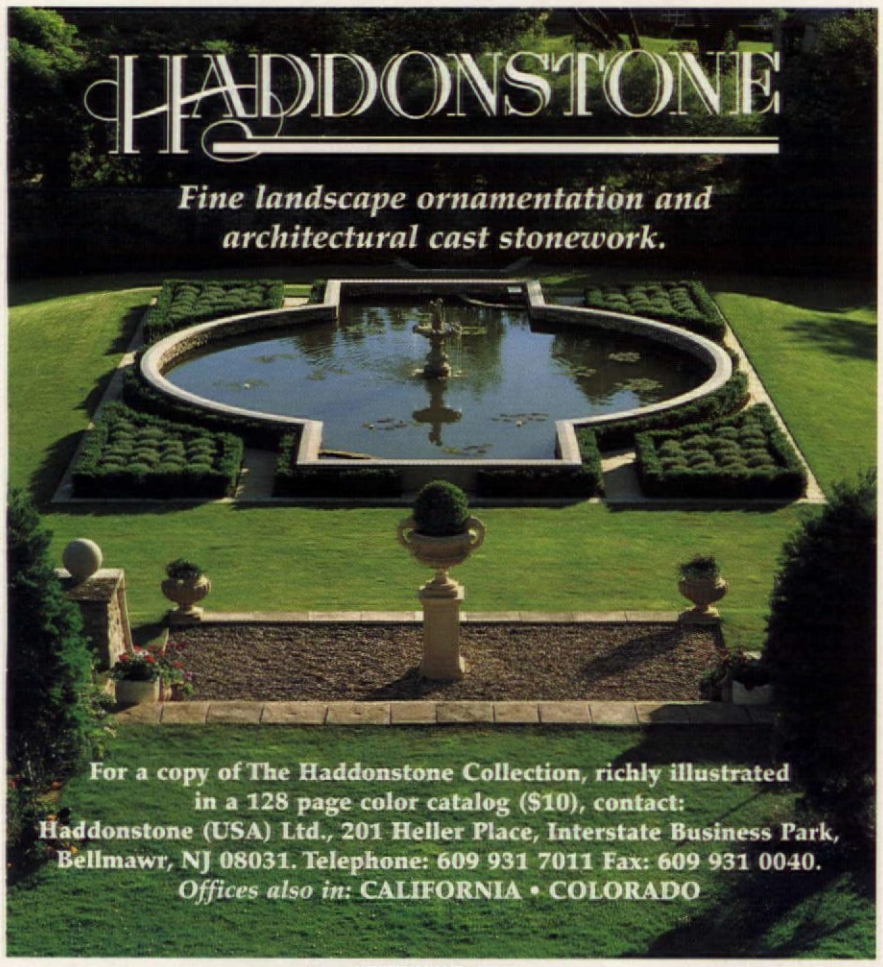

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COMPANY	SPECIALTY	Literature
Metalmorphosis Studios 6123 Ridge Rd., Dept. TB Sodus, NY 14551 315-483-6189; Fax: 315-483-6113	Sculptor, metalsmith, and staff create architectural metalwork in forged and fabricated iron, cast bronze, and all metals and glass. Sculpture, furniture, and accessories. Contemporary-design, historic, and liturgical metalwork.	Free Write in No. 1190
Metropolitan Ceramics 1201 Millerton Rd., SE, Dept. TB Canton, OH 44707 330-484-4887; Fax: 330-484-4880	For indoor and outdoor use, these 1/2-in.-thick ceramic quarry tiles feature low absorption, slip resistance, relieved edges, and blendable colors, sizes, and shapes. They are available in a variety of warm natural shades.	Free Write in No. 54
Michael Fannin, Stonewright 182 Gulf Rd., Dept. TB Middletown Springs, VT 05757 802-235-2412; Fax: 802-235-2040	Hand-carved marble architectural ornament, sculpture, signage; interior and exterior; reproduction and modeling from remnants, or new construction per architectural specs. Also, working in limestone and slate.	Free Write in No. 391
Mills & Co. P.O. Box 9, Dept. TB Bovina Center, NY 13740 607-832-4361; Fax: 607-832-4608	Finely-crafted, custom-built planters, pergolas, and trelliswork. Also garden storage cabinets. Work in teak, cedar, and mahogany.	Free Write in No. 6670
Mison Concepts, Inc. 121 East Second St., Dept. TB Mineola, NY 11501 516-739-0040; Fax: 516-248-4361	Custom architectural metalwork; design, fabrication, and installation; marquees, entryways, monumental staircases, railings, store fixtures, furniture, and lighting. Sculptured walls and screens for art and ornamentation. Materials include stainless steel, copper, nickel silver, aluminum, and steel. Range of finishes, including anodizing, blasting, and etching.	Free Write in No. 2740
Modern Art Foundry 18-70 41st St., Dept. TB Astoria, NY 11105 718-728-2030; Fax: 718-267-0819	Art foundry with over 65 years' experience producing lost-wax and sand castings; non-ferrous materials. Private/public, moldmaking, retouching, casting, finishing, mounting, enlargements, restoration, and maintenance.	Free Write in No. 1810
Mohamad Wood Turning Co. 28 Meadow St., Dept. TB Brooklyn, NY 11206 718-417-0025; Fax: 718-417-0021	Specializes in custom wood spirals, turnings, balusters, and columns in all classical styles; load-bearing for interior or exterior use. Can furnish fluting, reeding, rope twists, and custom carving. Fractional columns available.	Free Write in No. 50
Monumental Iron Works 6500 Eastern Ave., Dept. TB Baltimore, MD 21224 410-633-6500; Fax: 410-633-6506	Manufacturer of "MIW" ornamental picket and privacy screening fence systems, as well as Anchor Cantilever "internal roller" slide gates. Engineered to provide style and security, range of styles to complement traditional and contemporary designs.	Free Write in No. 6910
Morrow Company, Frank 129 Baker St., Dept. TB Providence, RI 02905 800-556-7688; Fax: 401-941-3810	Grey-iron castings, stamped decorative metal ornament and trim, available through distributors.	Free Write in No. 1220
Mortex Mfg. Co. 1818 W. Price St., Dept. TB Tucson, AZ 85705 800-338-3225; Fax: 520-293-8884	Textured, decorative, cementitious materials for new or existing concrete; 22 colors; also, PVC drainage and control joints; cantilever deck forms and Tac-It (to add perimeter lighting to any cantilevered edge that has cove strip.	Free Write in No. 3010
Mountain Ornamental Iron Works P.O. Box 568, Dept. TB Caryville, TN 37714 423-562-2701; Fax: 423-562-6878	Cast-iron garden furniture and ornament, cast from original 19th-century patterns. Decorative Victorian and Art Nouveau designs for the home and garden.	Free flyer, catalog $1 Write in No. 704
Munder-Skiles 799 Madison Ave., Dept. TB New York, NY 10024 212-717-0150; Fax: 212-717-0149	Garden and outdoor furniture for residential and commercial spaces. Unique designs in wood, metal, cast metal, and molded concrete. Consulting and custom design work available, with access to a library of historic designs and commercial products.	Call for more information
Murdock, Inc. 2488 River Rd., Dept. TB Cincinnati, OH 45204 800-45-DRINK; Fax: 513-471-3299	Manufactures a complete line of heavy-duty drinking fountains, hydrants, and shower equipment. Many units are built with cast iron bases and solid brass bowls. Indoor and outdoor fountains. Built to withstand the elements and vandalism.	Free Write in No. 3780
Musgrove Studios Signmaking 209 High St., Dept. TB Mount Holly, NJ 08060 609-267-3393; Fax: 609-267-3177	Traditional signmaking as well as scale drawings that any sign shop can build from. Specialist in historical signage and Main Street projects.	Free
National Concrete Masonry Association 2302 Horse Pen Rd., Dept. TB Herndon, VA 20171 703-713-1900; Fax: 703-713-1910	Technical assistance and information to architects, engineers, and designers on interlocking concrete pavers and concrete masonry construction. Represents manufacturers of pavers and related materials.	Free
New Blue Moon Studio P.O. Box 579, Dept. TB Leavenworth, WA 98826 509-548-4754; Fax: 509-548-4602	Hand-forged lighting in iron, copper, and brass; Art Nouveau, Art Deco, and Southwestern designs, stock and custom, are specialties.	Free Write in No. 3900
New England Cupola 184 Mattapoisett Rd., Dept. TB Acushnet, MA 02743 508-995-5331; Fax: 508-998-7041	Builder of hand-crafted cupolas in a range of styles; custom designs and sizes also available.	Free
New York Gas Lighting 195 Bowery, Dept. TB New York, NY 10002 212-529-2651; Fax: 212-529-7811	Exterior lighting for open-flame or gas-mantle applications; interior gas-style lighting with imported glassware; solid-brass and -bronze lighting for indoor and outdoor applications; table and floor lamps with Victorian detailing.	Free Write in No. 5380
Newstamp Lighting Co. P.O. Box 189, Dept. TB North Easton, MA 02356 508-238-7071; Fax: 508-230-8312	Custom indoor and outdoor lighting fixtures in all styles in copper, brass, and terne metal. All energy sources, including gas. Catalog available for Colonial-style fixtures and lanterns; restoration and reproduction.	Free Write in No. 800
Nichols Bros. Stoneworks, Ltd. 20209 Broadway, Dept. TB Snohomish, WA 98290 800-483-5720; Fax: 360-483-5721	Manufactures European and contemporary designs in reconstituted, dry-cast sandstone: planters, urns, vases, and other architectural and garden ornament and furnishings.	Free Write in No. 5980
NIKO Contracting Co. 3434 Parkview Ave., Dept. TB Pittsburgh, PA 15213 412-687-1517; Fax: 412-687-7969	Nationwide roofing and sheetmetal contractor has extensive experience in historic-restoration projects: custom architectural sheetmetal work, artificial patination of copper, standing-seam, slate, tile, and other historic roofing.	Free Write in No. 8300
NOMMA - Nat'l. Ornamental & Misc. Metals Assn. 804 Main St., Ste. F, Dept. TB Forest Park, GA 30297 404-363-4009; Fax: 404-366-1852	Major trade association of 800 metal fabricators with goal of improving levels of professional excellence in metalwork. They will provide a list of NOMMA members in your area if you are seeking a qualified fabricator.	Free Write in No. 5170

COMPANY	SPECIALTY	Literature
Normandy Imports, Ltd. 1102 Falls Rd., Dept. TB Rock Hill, SC 29730 803-328-9232; Fax: Same as phone	Direct importer of antique French building materials and architectural and garden elements; hand-cut stone basins, sinks, and troughs for planters, fountain reservoirs, and stone tables for the garden; terra cotta flooring for exterior use. Will broker rare pieces, including sculpture, from French suppliers.	Free Write in No. 568
North American Stone Company P.O. Box 2300, Dept. TB McKinney, TX 75070 972-562-9992; Fax: 972-562-0794	Manufacturing and design of balustrade systems, treads, and copings; also, pots, urns, fountains, walls, and freestanding fountains; columns, gazebos, newel posts and caps, signage, and more. Design assistance.	Free Write in No. 754
Norwell Mfg. P.O. Box 559, Dept. TB East Taunton, MA 02718 800-822-2831; Fax: 508-823-9431	Manufactures decorative solid-brass lighting fixtures for indoor and outdoor use, in a variety of finishes.	Free Write in No. 439
O'Sullivan Custom Etched Stone 412 Torrington Rd., Dept. TB Litchfield, CT 06759 860-567-0232; Fax: Same as phone	Source for 100% custom low-relief stone carving for indoor and outdoor architectural, commercial, and residential applications; medallions, heraldry, decorative carving for patios, walkways, benches, tables, and sundials.	Free Write in No. 738
Oak Leaf Conservatories 876 Davis Dr., Dept. TB Atlanta, GA 30327 800-360-6283; Fax: 404-250-6283	York, England-based company with custom-built traditional English-style conservatories; traditional skills of British designers and craftsmen utilized to create, construct, and install fine conservatories; individually designed.	Free flyer, catalog $10 Write in No. 6860
Oakfield Stone Co., Inc. P.O. Box 221, Dept. TB Oakfield, WI 53065 920-922-8744; Fax: 920-922-9125	Source of natural stone used for patios, retaining walls, outcroppings, waterfalls, flagstone, and capping.	Free
Old Smithy Shop 193A Rte. 13, Dept. TB Brookline, NH 03033 603-672-4113	Forged pintles and pintle hinges, sash locks, shutter holdbacks, and more. Forge or painted finishes; hinge sets can be broken.	Free Write in No. 5110
Old World Iron, Inc. 11128 N. Stemmons Fwy., Dept. TB Dallas, TX 75229 972-484-9926; Fax: 972-484-9758	Custom hand-forged, hand-hammered wrought-iron stair rails, balustrades, gates, grilles; also, tables, beds, furnishings, and decorative resins; shipped primed.	Free Write in No. 332
Ornamental Metal Institute of N.Y. 211 E. 43rd St., Dept. TB New York, NY 10017 212-697-5553; Fax: 212-818-0976	Consultations, literature, and seminars on the design and use of architectural and ornamental metals to construction professionals; associated services provided free of charge.	Free Write in No. 5430
Otterbine Barebo, Inc. 3840 Main Rd. East, Dept. TB Emmaus, PA 18049 610-965-6018; Fax: 610-965-6050	Manufacturers of floating aerators and fountains for ponds and lakes. Nationwide distribution.	Free Write in No. 705
Outdoor Lifestyle, Inc. 918 N. Highland St., Dept. TB Gastonia, NC 28052 800-294-4758; Fax: 704-833-0087	Manufacturer of a full line of leisure and outdoor aluminum furniture, with eight stock finishes.	Free
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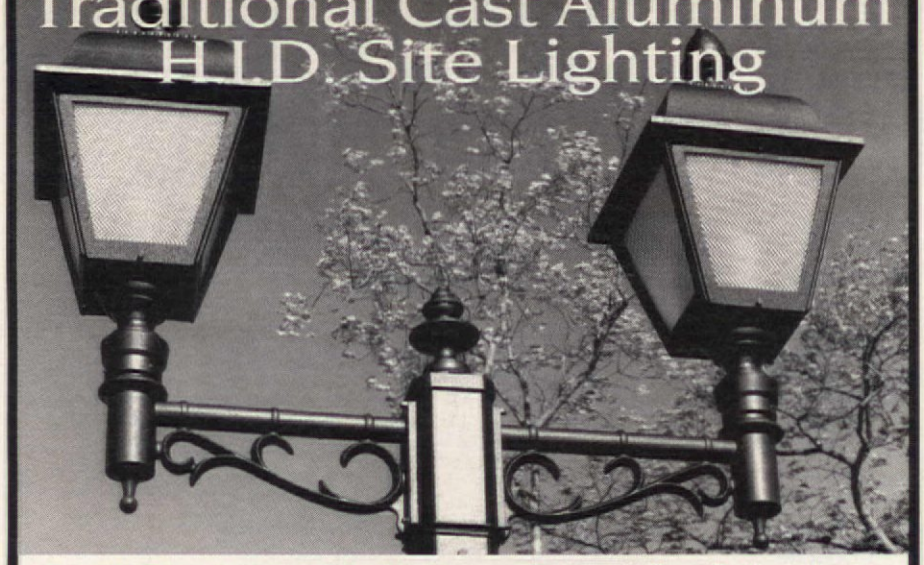

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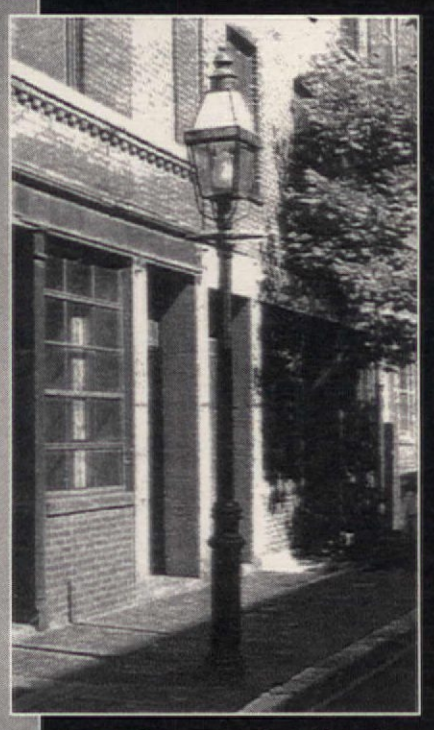

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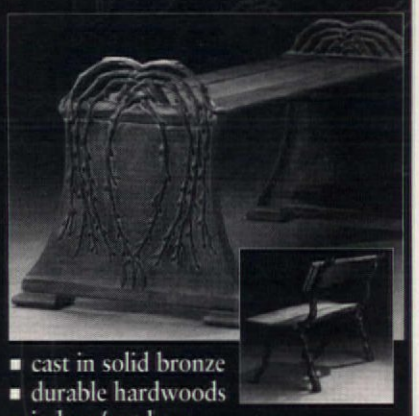

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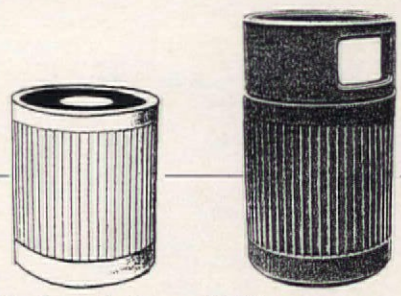

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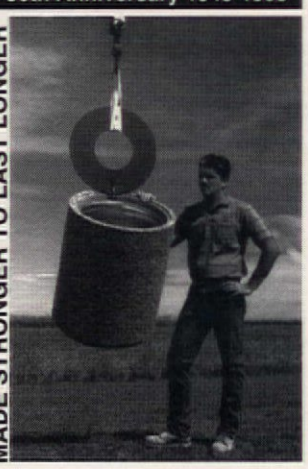

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TRADITIONAL BUILDING'S *SourceList for* CSI# 02870

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COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature
Stowe Forge & Stone Works 17 Towne Farm Lane, Dept. TB Stowe, VT 05672 802-253-7625; Fax: Same as phone	Source of a wide variety of natural-stone accents for the garden, walkway, and home; specialist in dimensional granite, countertops, interior/exterior flooring, bridges, veneer stone.	Free
Sunbilt Solar Products 109-10 180th St., Dept. TB Jamaica, NY 11433 718-297-6040; Fax: 718-297-3090	Aluminum heavy-duty frames with insulated glass creates a sunroom/ conservatory/ greenhouse in straight or curved eave design. Available in clear, bronze-tinted, or bronze-tinted Low-E glass. Frames in bronze or white. Units are modular; standard sizes or custom units.	Free
Supreme Decking P.O. Box 1459, Dept. TB Lorton, VA 22079 800-532-1323; Fax: 703-742-9132	Decking that naturally drains water; special bottom relief-cuts also prevent cupping; patented design, smooth finish.	Free
Sur-Fin Chemical Corp. 1530 Spence St., Dept. TB Los Angeles, CA 90023 213-262-8108; Fax: 213-264-7734	Wide range of patinas for copper, brass, bronze, galvanized steel, iron, pewter, solder, and aluminum. Also, exterior/interior lacquers for metals. California residents call toll-free: 800-282-3533.	Free Write in No. 5620
Sweepster, Inc. 2800 North Zeeb Rd., Dept. TB Dexter, MI 48130 800-456-7100; Fax: 734-996-9014	Manufacturer of a complete line of power sweepers for lawn and garden; tractors, skid steers, loaders, and turf mowers. Also, walk-behind and push-broom attachments.	Free Write in No. 238
Sycamore Creek P.O. Box 16, Dept. TB Ancram, NY 12502 518-398-6393; Fax: 518-398-7697	Copper garden furnishings, specializing in arbors and trellises. Custom projects welcome.	Free Write in No. 709
Sylva Designs LLC 8167 Lueth Rd., Dept. TB Sauk City, WI 53583 608-643-2032; Fax: 608-643-3016	Firm designs and manufactures garden furniture and other garden site furnishings. Each piece is hand-cast in solid bronze, hand-finished and -patinated. Custom work available.	Free Write in No. 711
Tanglewood Conservatories, Ltd. 15 Engerman Ave., Dept. TB Denton, MD 21629 410-479-4700; Fax: 410-479-4797	Authentic, hand-crafted English conservatories. Enchanting historical details, insulated glass and multi-point brass hardware sympathetically blend in these architecturally distinctive, American-made, wood structures.	Free Write in No. 8270
Tennessee Fabricating Co. 2025 York Avenue Memphis, TN 38104 901-725-1548: Fax: 901-725-5954	Supplier of ornamental cast-iron, -brass, and -aluminum architectural parts for rails, columns, fences, gates, foundation vents, furniture, and grillework.	Free Write in No. 5180
Terra Designs Tileworks P.O. Box 913, Dept. TB Dover, NJ 07802 973-328-1135; Fax: 973-328-3624	Fabricator of custom ceramic stoneware and porcelain mosaic work. Mosaic artware has been used in and around swimming pools. Decorative ceramic tile for walls. Historic replication of mosaics, plaques, and terra cotta faience work.	Free flyer, catalog $5 Write in No. 2790
Texas Carved Stone, Inc. 6621 Hwy 195, Dept. TB Florence, TX 76527 254-793-2384; Fax: 254-793-2384	Fabrication of ornamental limestone: carving, restoration, blocks for new construction. Altars, pulpits, carved exterior ornament. Carvers are capable of working in any period or style. Custom and reproduction mantels.	Free Write in No. 1055
Texas Metal Industries, Inc. P.O. Box 154, Dept. TB Crandall, TX 75114 800-222-6033; Fax: 800-472-3807	Ornamental aluminum castings: outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lampposts, and urns.	Free Write in No. 9430
Tooterville Trolley & Clock Co. P.O. Box 2127, Dept. TB Evansville, IN 47728 812-858-8585; Fax: Same as phone	Unusual high-end collectibles, including street clocks, soda and cigarette machines, gas pumps, juke boxes, and trolley trams.	Free Write in No. 503
Toronto Fabricating & Mfg. Co. 1021 Rangeview Rd., Dept. TB Mississauga, Ontario, CANADA L5E 1H2 905-891-2516; No fax	Designer and manufacturer of landscape and site furnishings in cast iron, steel, or cast aluminum: benches, lamp standards, luminaires, sconces, trash receptacles, planters, tree grates and guards, bollards, bicycle racks, and more.	Free
Torrens Sculpture Design P.O. Box 1819, Dept. TB Gig Harbor, WA 98335 253-857-5831; Fax: 253-265-2404	Functional sculpture for the home and garden, made from recycled and industrial materials. Collection includes fountains, bird baths, sundials, bells, gates, birdfeeders, wind vanes, and lighting.	Catalog $2
Town & Country Conservatories 5153 North Clark St., Ste. 228, Dept. TBC Chicago, IL 60640 773-506-8000; Fax: 773-506-8815	English conservatories, orangeries, and roof lanterns in custom and standard sizes. Classically-based designs with exceptional detailing. Imported.	Free flyer; Color catalog & design guide, $12 Write in No. 739
Traditional Concrete Products P.O. Box 157, Dept. TB Menomonee Falls, WI 53052 414-250-7599; Fax: 414-250-7598	Manufactures a variety of reinforced-concrete light poles and bollards for streets, marinas, residential subdivisions, and other applications; maintenance-free, corrosion-resistant. Custom work available.	Free
Travis Tuck, Metal Sculptor P.O. Box 1832, Dept. TB Vineyard Haven, MA 02568 888-693-3914; Fax: 508-693-3914	Specializes in one-of-a-kind, full- and 3/4-bodied copper weathervanes of any design. All work done without molds, using the repousse method; 23k-gold leaf.	Free
Treen Graphics, Inc. 24 Queen St., Dept. TB New Dundee, Ontario, CANADA N0B 2E0 519-696-3212; Fax: 519-696-2797	Firm designs and builds custom architectural graphics and signs; Western red cedar and Signfoam a specialty, but other woods and materials are available.	Free
Tropic Top/Symbold 2028-3 Eastbourne Way, Dept. TB Orlando, FL 32812 407-273-0069; Fax: 407-273-0060	Manufacturer of lightweight metal "thatch" shingles for buildings and structures, which give a tropical look in any climate. Ideal for resorts, restaurants, hotels, parks, etc. Also, waterfall, pond, and rock formations.	Free Write in No. 3870
Tuftex Corp. 4900 Ondura Dr., Dept. TB Fredericksburg, VA 22407 800-777-7663; Fax: 540-898-4991	Source for a wide variety of vinyl building panels for greenhouses, pool covers, patio covers, carports, and other building needs; nine color selections, and lengths from 8 to 16 ft.	Free
Upbeat, Inc. 4350 Duncan Ave., Dept. TB Saint Louis, MO 63110 800-325-3047; Fax: 314-535-4419	Wide variety of site furnishings, including benches and other furniture in wood, metal, and plastic, and receptacles for recycling, waste, or ash, in wood, metal, plastic, and aggregate. Also, mailboxes, signage, banners, and more.	Free
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Verdin Co. 444 Reading Rd., Dept. TB Cincinnati, OH 45202 800-543-0488; Fax: 513-241-1855	Nation's oldest and largest manufacturer of street clocks, tower clocks, and clock chiming systems. Also, clock repair, restoration, and renovation. Specialist in bells, bell-ringing equipment, and electronic carillons.	Free Write in No. 4350
Vermont Brick Manufacturing Box 1025, Dept. TB Melrose, MA 02176 781-665-7800; Fax: 781-662-8209	Producer of traditional waterstruck brick, available through their distributors. Call for nearest distributor.	Free Write in No. 765
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Versa-Lok Retaining Wall Systems 6348 Hwy. 36, Ste. 1, Dept. TB Oakdale, MN 55128 800-770-4525; Fax: 651-770-4089	Segmental retaining-wall systems with no mortar or footings required. Easy construction of curves, corners, and steps.	Free
Vintage Wood Works Hwy. 34 S., P.O. Box R, Dept. TB Quinlan, TX 75474 903-356-2158; Fax: 903-356-3023	Exterior and interior Victorian millwork; extensive selection of solid-wood porch parts featured in a 224-page color catalog, including turned posts, turned and sawn balusters, railings, brackets, corbels, and custom-length spandrels.	Free Write in No. 1061
Vitricon, Inc. 65 Davids Dr., Dept. TB Hauppauge, NY 11788 800-777-6596; Fax: 516-231-1329	Maker of seamless, cushioned "Vitriturf" safety surfacing for playgrounds, pool decks, walkways, patios, running tracks, tennis courts, etc. Available in numerous color combinations, or with logos and inlaid designs.	Free
Vixen Hill Gazebos P.O. Box 389, Dept. TB Elverson, PA 19520 800-423-2766; Fax: 610-286-2099	Line of cedar gazebos and screened pavilions and gardenhouses in easy-to-assemble modular kits. Copper roofs; two-tier and single-tier roof systems available. Also, custom-size mortise-and-tenon cedar shutters with hardware.	Free Write in No. 7100
Vulcan Supply Corp. P.O. Box 100, Dept. TB Westford, VT 05494 802-878-4103; Fax: Same as phone	Specialist in replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornices, vented ridge cresting, leader boxes, cupolas, roof vents, more; all periods and styles.	Free Write in No. 7212
W.F. Norman Corp. P.O. Box 323, Dept. TB Nevada, MO 64772 800-641-4038; Fax: 417-667-2708	Major fabricator of sheetmetal ornament; hundreds of stock designs of cornices, moldings, brackets, pressed-metal ceilings, etc.; duplication from samples or drawings.	Free Write in No. 520
Walpole Woodworkers 767 East St. (Rt. 27), Dept. TB Walpole, MA 02081 508-668-2800; Fax: 508-668-7301	Full line of 6-ft.-x-8-ft. to 20-ft.-x-40-ft. modular small buildings; many options and details to personalize cabanas, garden sheds, studios, stables, and gazebos. Also, quality cedar fences; outdoor furniture.	Free flyer, $10 catalog Write in No. 280
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Wausau Tile, Inc. P.O. Box 1520, Dept. TB Wausau, WI 54402 800-388-8728; Fax: 715-355-4627	Manufactures precast-concrete pavers in 30 colors, and terrazzo flooring in over 60 colors. Also, site amenities: planters, waste receptacles, bollards, ash snuffers, recycling containers, tables, benches, and signs.	Free Write in No. 4120
Whitacre-Greer 1400 S. Mahoning Ave., Dept. TB Alliance, OH 44601 330-823-1610; Fax: 330-823-5502	Manufactures bevel-edged, dry-pressed brick pavers in permanent earth-tone colors with high freeze-thaw resistance.	Free Write in No. 505
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Woodard Box 280, Dept. TB Owosso, MI 48867 800-895-3828; Fax: 517-725-4220	Manufacturer of wrought-iron, cast-aluminum, and tubular aluminum furniture.	Free
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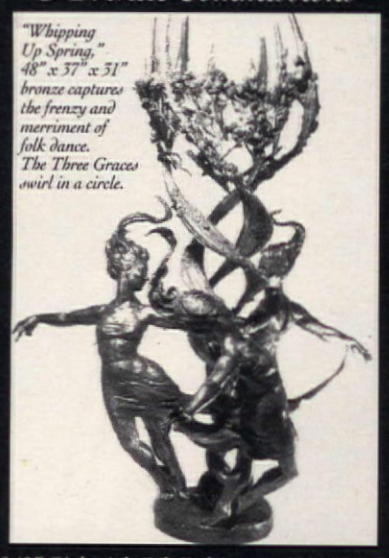

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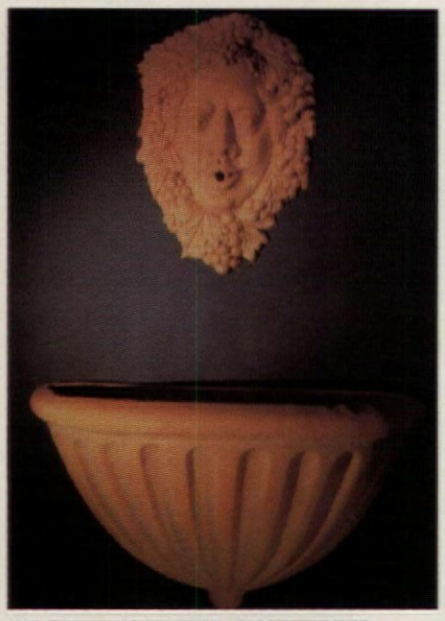
WRITE IN NO. 4160

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.



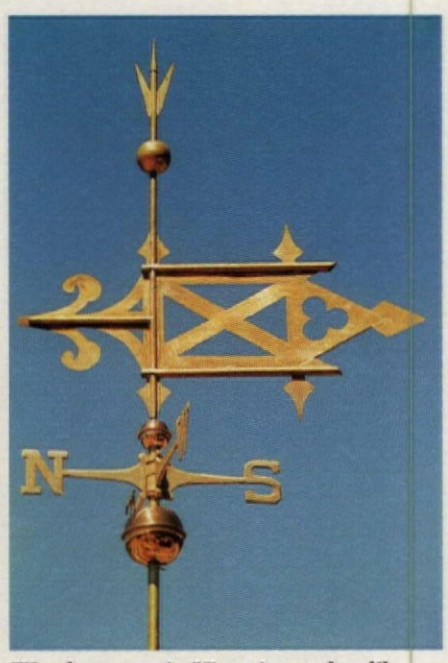
ARCHITECTURAL POTTERY'S bacchanalian half-wall fountain is reproduced in terra cotta. *Write in No. 20*

IRONSMITH's "pedestrian-proof" Olympian octagonal tree grate is available in 30-, 48-, and 60-in. sizes, in cast iron or aluminum. *Write in No. 9000*

The design of this garden gate from FINE ARCHITECTURAL METALSMITHS, measuring approximately 40 in. wide x 66 in. high, is based on traditional English scrollwork, with banded and collared construction and a hand-crafted latch. *Write in No. 2640*

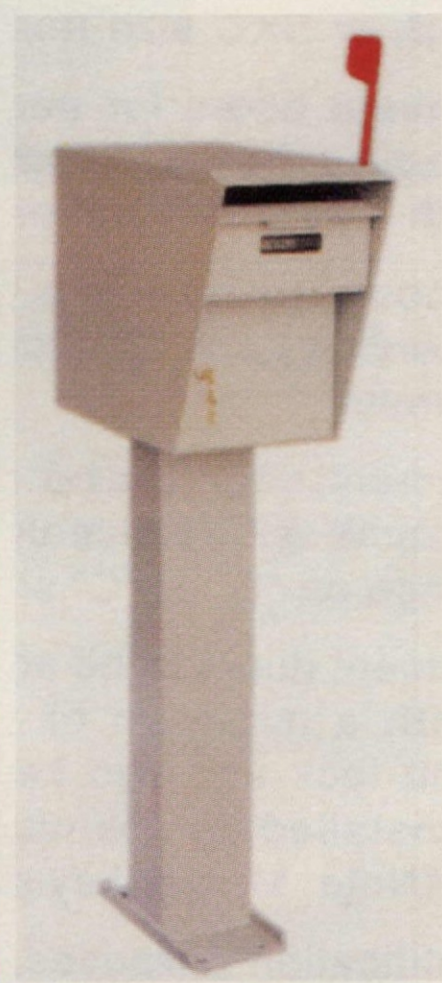
Carrying flag-waving patriotism a little further, CHAENOMELES' 45-degree flag holder shown here is in the shape of a star. *Write in No. 1360*

Standing tall (14-1/2 ft.) in front of the City Hall in Hampton, Va., is the eloquent allegorical figure, "First From The Sea; First To The Stars," sculpted by Barry Johnston of SCULPTURE WORKS. *Write in No. 763*



Weathervanes in Victorian styles, like this English banner, are specialties of CROSSWINDS GALLERY. *Write in No. 107*

ARROYO CRAFTSMAN's BP-11 WO-MB, Berkeley-style is an 11-in. post-mount fixture with white opalescent art glass and a Mission-brown finish. *Write in No. 733*



Book depositories, multiple collection boxes, and, shown here, the single-delivery "Mailmaster" from CUTLER MANUFACTURING, are available in varying heights. *Write in No. 85*

This rare and exceptional campana-form lidded portland-stone urn with naturalistic carved grape vines and foliate elements, grotesque masks, and an acanthus leaf finial dates to the 1840s and is available from BARBARA ISRAEL GARDEN ANTIQUES. *Write in No. 697*

FREEDOM FORGE fabricated this copper lantern measuring 18 x 36 in. for a driveway pediment in Los Altos Hills, Calif. *Write in No. 2650*

This colonial-style lantern measures 15 in. wide x 41 in. high, and was handcrafted by A.J.P. COPPERSMITH & CO. *Write in No. 771*

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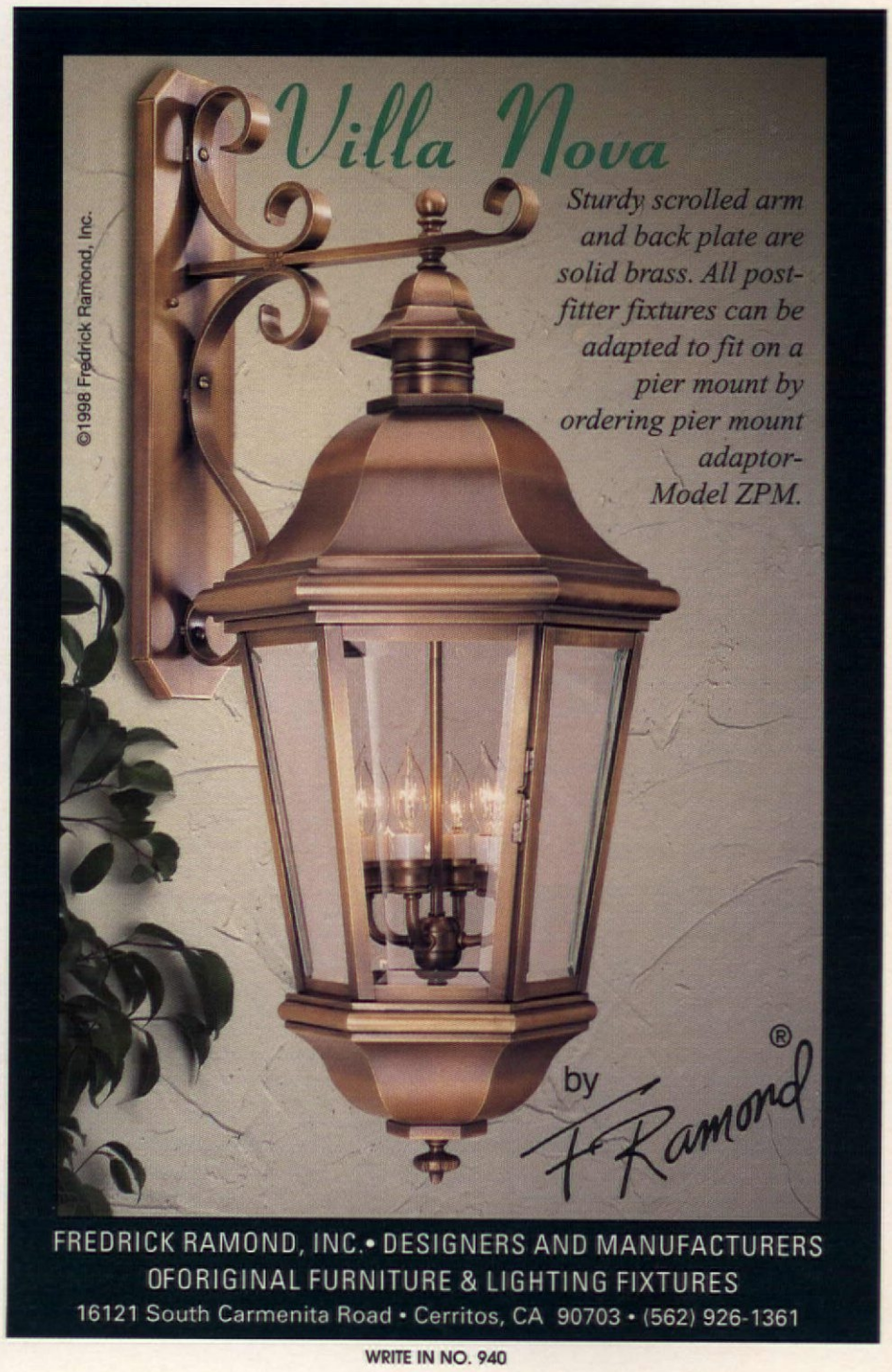
WRITE IN NO. 200



WRITE IN NO. 940

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.

BROSAMER'S 15-in. cast-iron yard bell makes for a charming garden ornament. *Write in No. 7130*

Imagine having a classical temple in your backyard. HADDONSTONE'S small temple L9250 with X510C dome is made of a special form of cast limestone with a surface texture resembling Portland stone. *Write in No. 4020*

ACQUABELLA restores fountains to their former grandeur, like this 1920s-era water feature in Los Angeles, which underwent an extensive restoration and was converted from a continuous-flow system to a recirculating one. *Write in No. 459*

This memorial garden plaque with green and yellow detailing was cast by LA HAYE BRONZE. *Write in No. 9160*

Coping is a specialty of FEDERAL STONE INDUSTRIES, and was used on this luxurious poolside. *Write in No. 2340*

DOTY & SONS' concrete pedestal table with two stools is shown here with limestone exposed-aggregate bases, light sandblast seats, and an optional checkerboard-pattern table top. *Write in No. 2090*

BAMBOO FENCER's Maya Fence Panel is one of many designs produced in Mexico with Yucatan bamboo, taken from a plantation involved with a rainforest-reclamation effort. One of the Mayan artisans stands before a panel, custom sized and shipped straight to the customer. *Write in No. 241*

DUMOR'S steel-framed bench #73 is available in clear all-heart redwood or Douglas fir. *Write in No. 2180*

This Doric garden house from CITY VISIONS/HERITAGE GARDEN HOUSES is the perfect spot to sit and gaze upon garden lilies. *Write in No. 9030*

ENVIRONMENTAL FEATURES offers standard and custom-made trash and ash receptacles in precast concrete with a variety of aggregate finishes. *Write in No. 278*

Providing both a guard rail and an attractive fence on this deck, this iron-work scrolled fence is from GABY'S SHOPPE. *Write in No. 2520*

GARDEN ART INTERNATIONAL produces a line of planters and fountains called "Old World Cast Iron," available in three finishes: raw, rusted, or painted flat back. *Write in No. 582*

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WRITE IN NO. 4840

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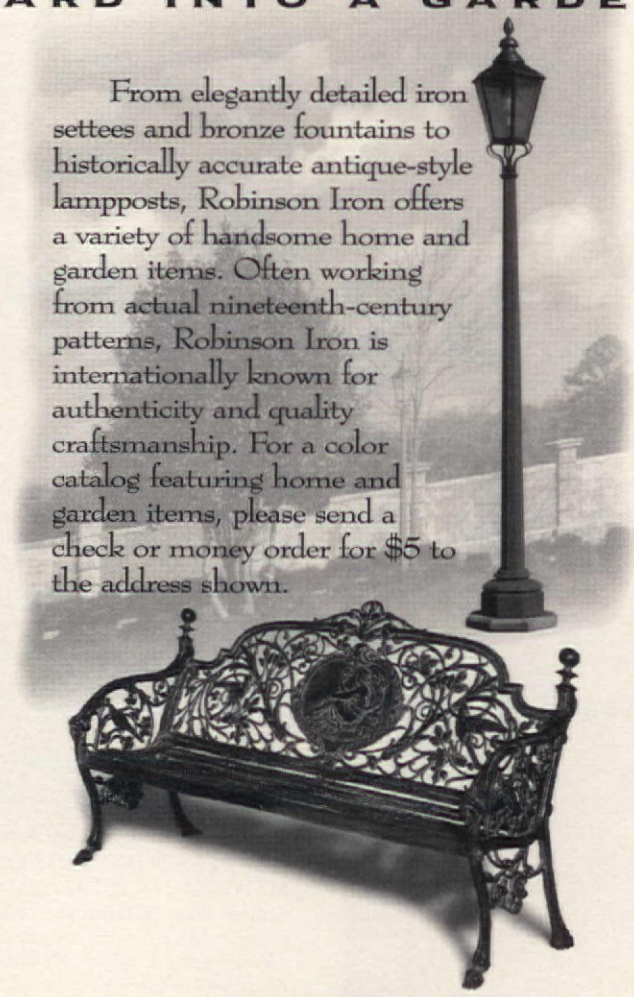

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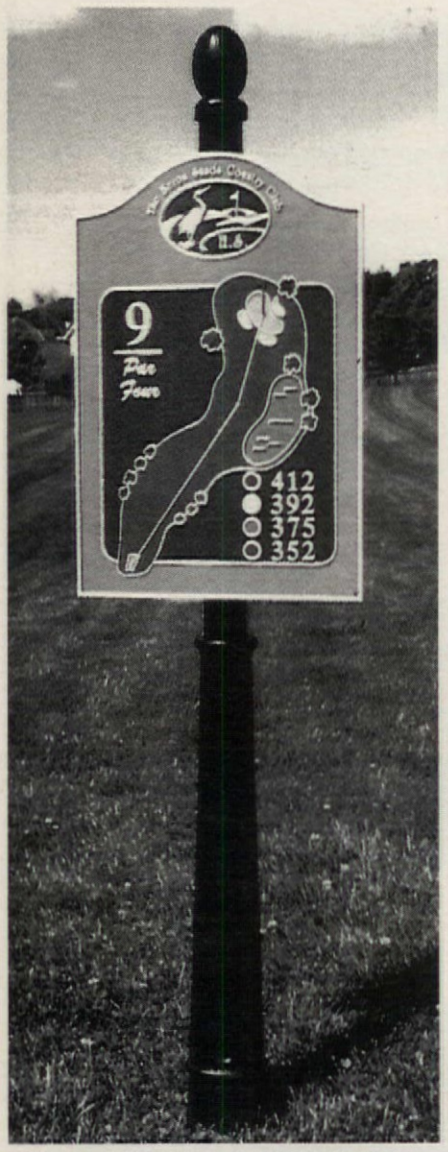
WRITE IN NO. 1005

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.

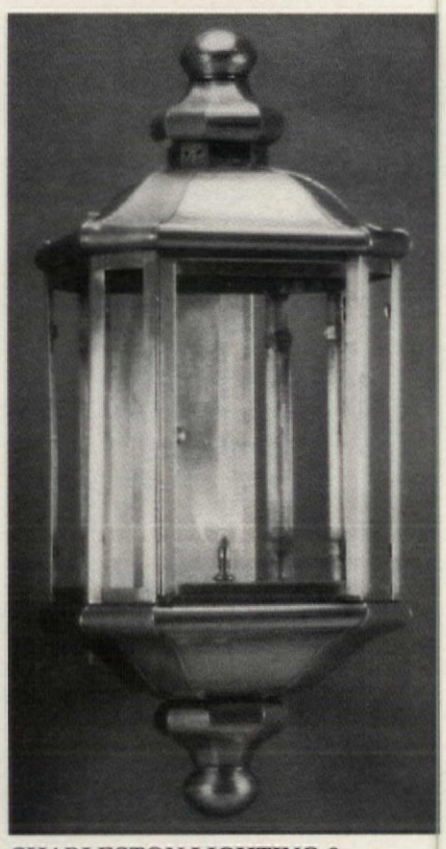


CUSTOM HOME ACCESSORIES' custom golf-course markers are made of solid bronze and mounted on a rust-free decorative aluminum post. *Write in No. 527*

This lovely addition is a garden house from CAROLINA SOLAR STRUCTURES. *Write in No. 692*

Adirondack chairs and footrests are a specialty of COPPA WOODWORKING. *Write in No. 9600*

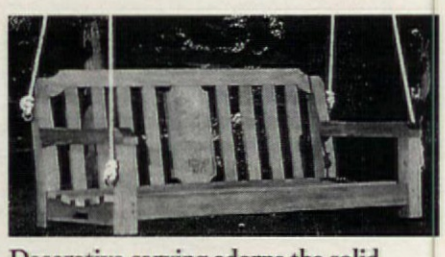
Period glass structures from COLEBROOK CONSERVATORIES are custom designs, with window styles including casement windows. *Write in No. 382*



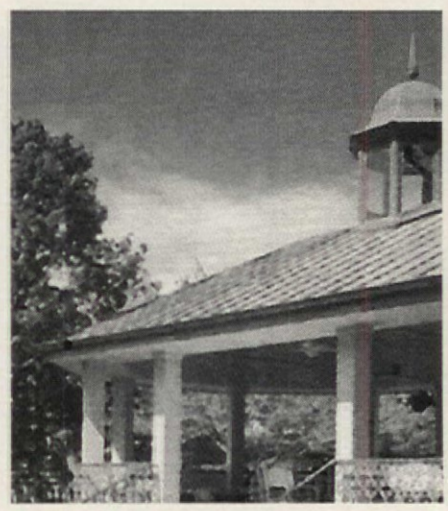
CHARLESTON LIGHTING & MANUFACTURING's uniquely styled copper lantern from the "Vallejo" series is available in gas or electric, as well as pier-mounted, wall, and hanging designs. *Write in No. 772*

This post-mounted lantern from COPPER HOUSE, #2643, features an optic-glass caged shade measuring 12 in. x 12 in. x 20 in. *Call 800-281-9798 for more information*

Items from THE CHIMNEY POT SHOPPE are found in the garden, too; these terra-cotta pieces are used to edge a flowerbed. *Write in No. 410*

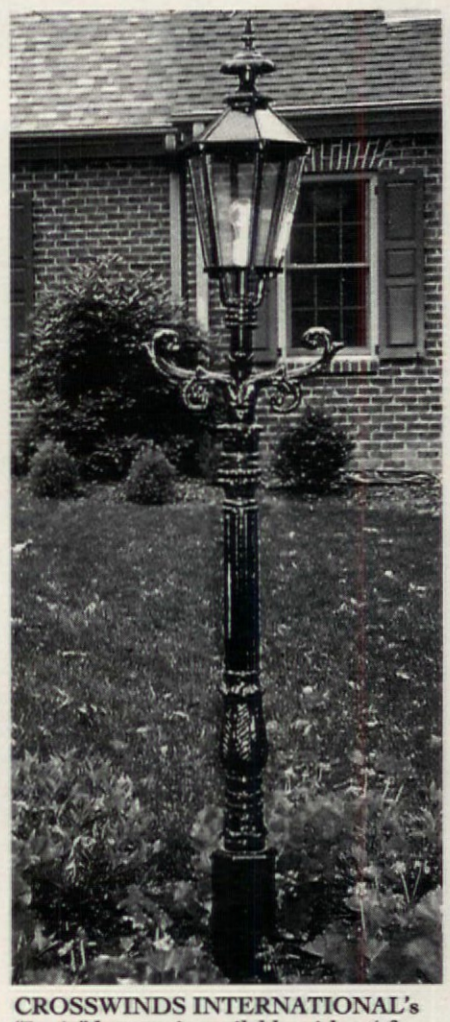


Decorative carving adorns the solid English teak swing from THE CENTERVILLE COLLECTION. *Write in No. 1160*



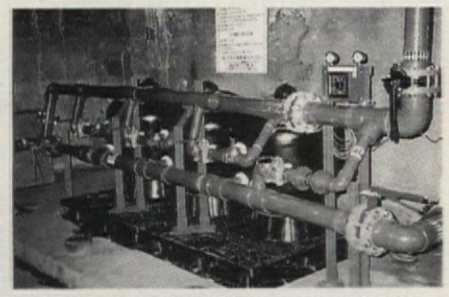
COPPERCRAFT cupolas are ready-to-install, like the one topping this park pavilion. Units include skirt flashing and a roof template for easy installation. The starpoint spire on top is one of six standard designs, though custom spires and finials are also available. *Write in No. 1490*

The lantern #B1ST3S from COPPER SCULPTURES is a wall-mounted gas fixture. *Write in No. 300*



CROSSWINDS INTERNATIONAL's "Lesic" lantern is available with a 4-ft. post. *Write in No. 173*

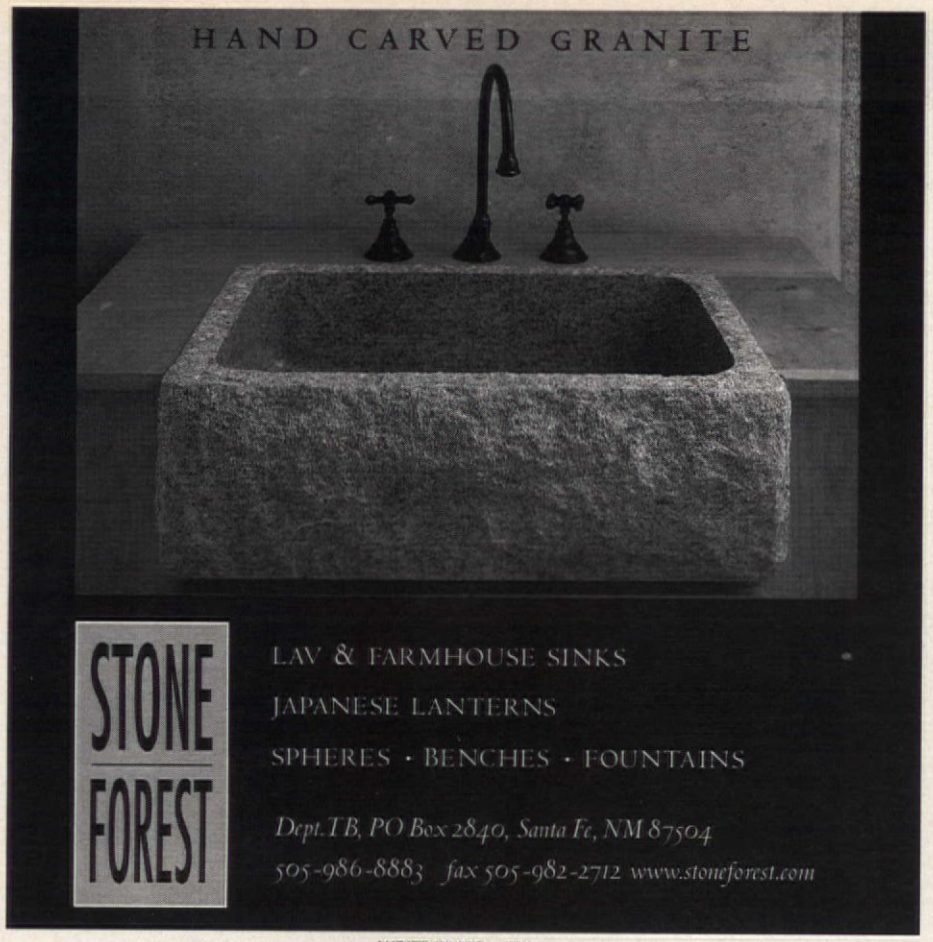
EDER FLAGPOLE built this impressive 60-ft. yardarm and gaff nautical pole for a harborside location in Harwichport, Mass. *Write in No. 4290*



This DIAMOND WATER SYSTEMS workhorse water-filtration unit is designed to filter a flow of 300 gallons per minute per square foot of surface. *Write in No. 2350*

This most unusual structure, built by DEANGELIS IRON WORK, is a fully functional 15-ft. equatorial sundial, fabricated from 1/2-in. steel plate and stainless-steel strips. It's located at the corporate headquarters of the Simplex Time Recording Co. in Westminster, Mass. *Write in No. 1023*

This beautiful cast-stone over-door pediment from DHS DESIGNS is one of a set of five from the Addison Mizner-designed 1920s Palm Beach estate, Playa Riente. *Write in No. 773*



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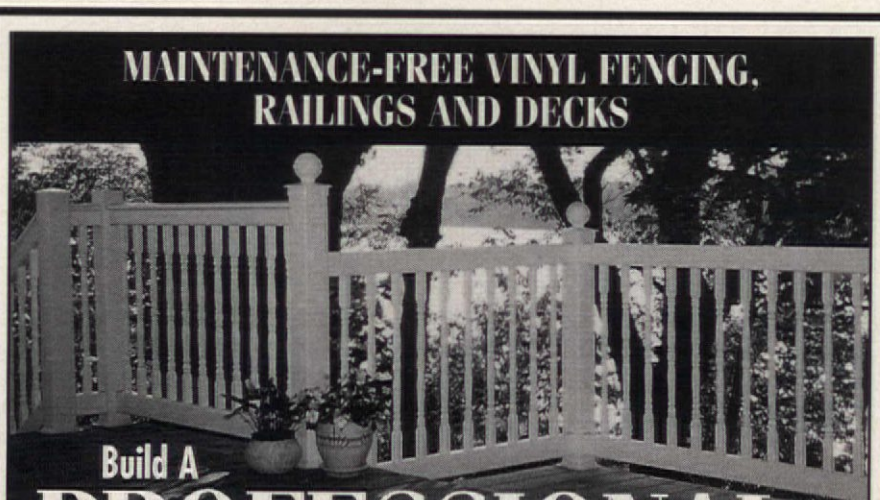

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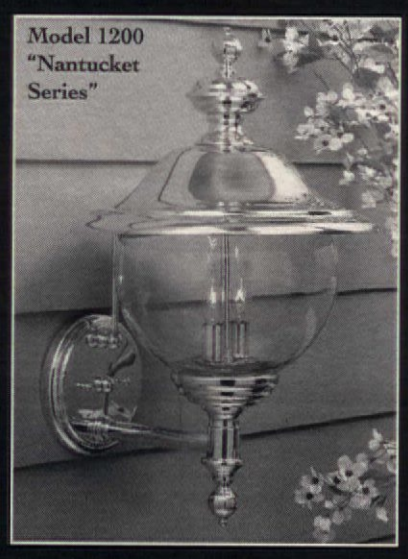

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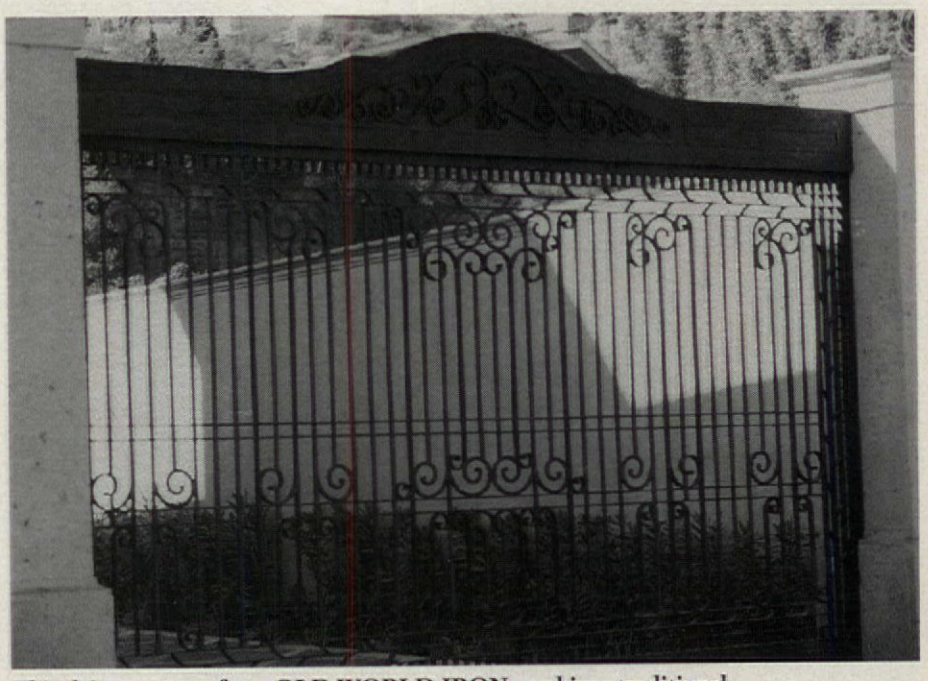
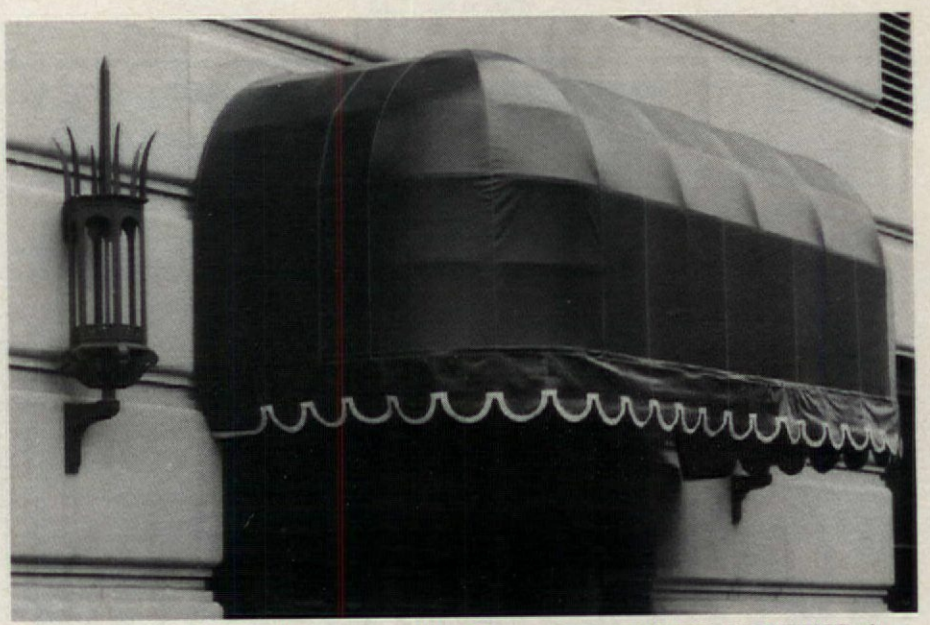
Eric Blome of the FIGURATIVE ART STUDIO works on the "George Washington Carver" lifesize sculpture which was cast in bronze and installed on site in Mesa, Ariz. *Write in No. 478*



This driveway gate from OLD WORLD IRON combines traditional metalworking skills with modern operable gate technology. *Write in No. 332*

The model #311 aluminum mailbox system from IMPERIAL MAILBOX SYSTEMS is shown with solid-brass number plate and a newspaper box. *Write in No. 586*

Interpretive signage at the Francis Scott Key park in the Georgetown section of Washington, D.C., is made from screen-imaged-fiberglass signs on aluminum frames, designed by GS IMAGES in the style of National Park Service signage. *Write in No. 482*



Like some royal diadem, these custom light fixtures from HERWIG LIGHTING give this entryway a touch of elegance. *Write in No. 9130*

FOUR SEASONS SUNROOMS' commercial division built a multi-tiered environmental enclosure with steel substructure for Butterfly World, a park in Valejo, Calif., bringing the outdoors inside. *Write in No. 910*

This astrolabe, #602 from FLORENTINE CRAFTSMEN, features beautifully detailed hand-wrought brass and bronze, and measures 17 in. dia. and 26 in. high. *Write in No. 4390*

The Minneapolis Home & Garden show featured a glass house from ROYAL CONSERVATORIES. *Write in No. 214*

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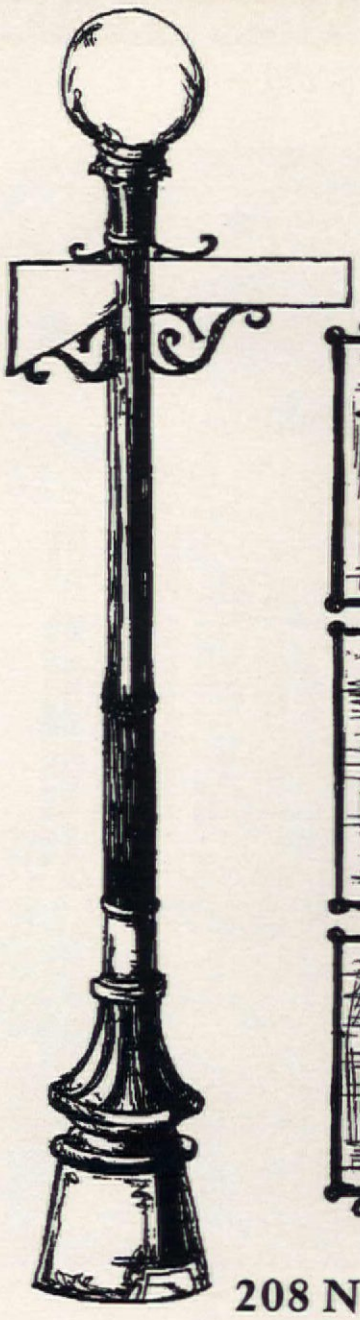

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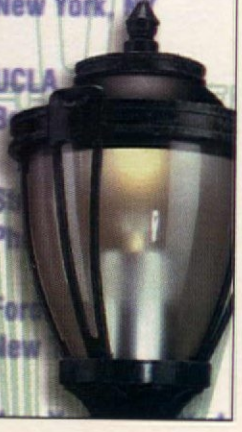

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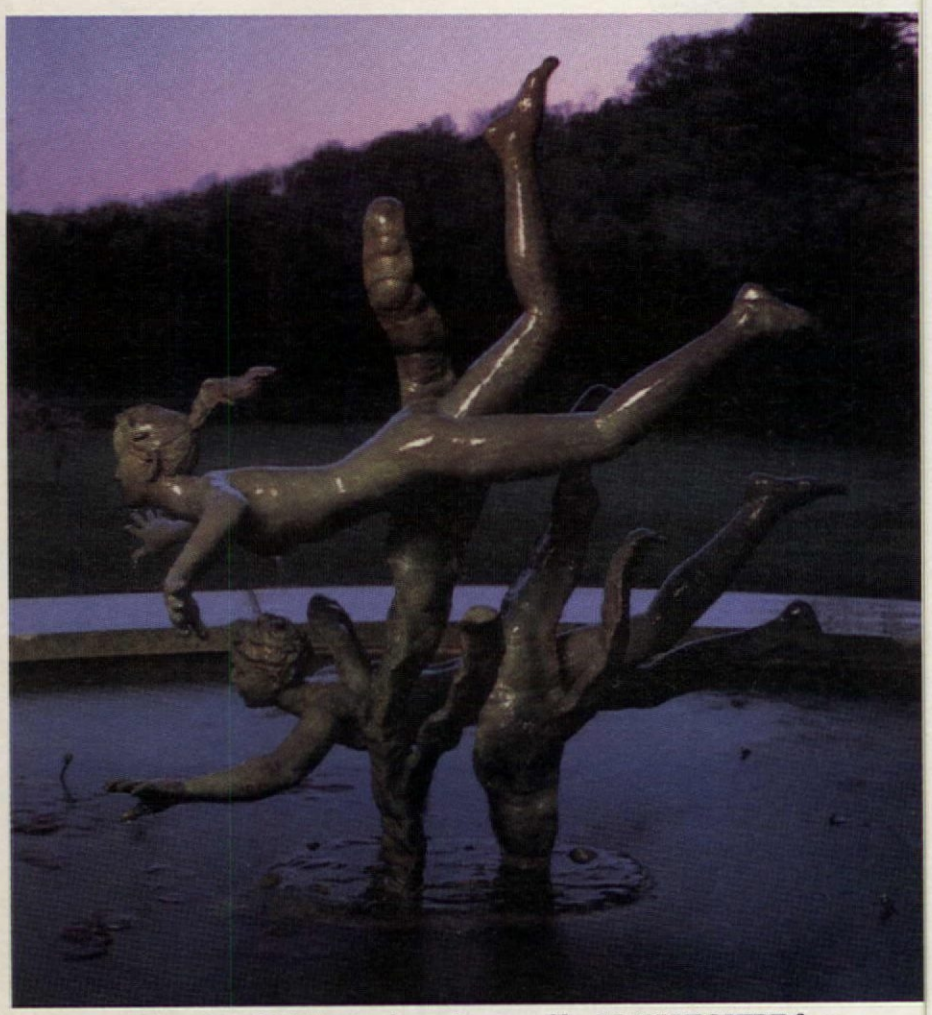
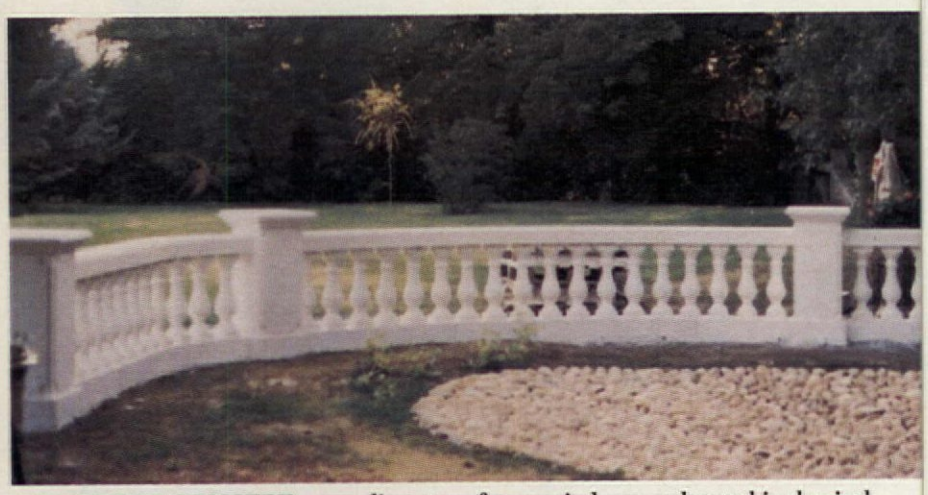


"Swimmers" is a 60-in.-high bronze fountain created by ALAN LEQUIRE for a private client. The sculptor works in virtually all sculptural materials. *Write in No. 5230*



LIMESTONE CONCEPT carves limestone for uses indoors and out; this classical balustrade was a recent project. *Write in No. 5390*

MODERN ART FOUNDRY cast this custom fountain by sculptor George M. Kelly in bronze, with a verdigris patina. *Write in No. 1810*

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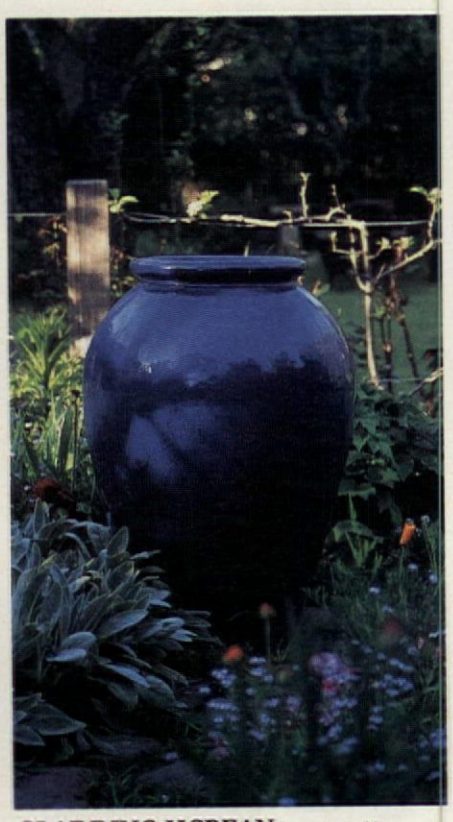
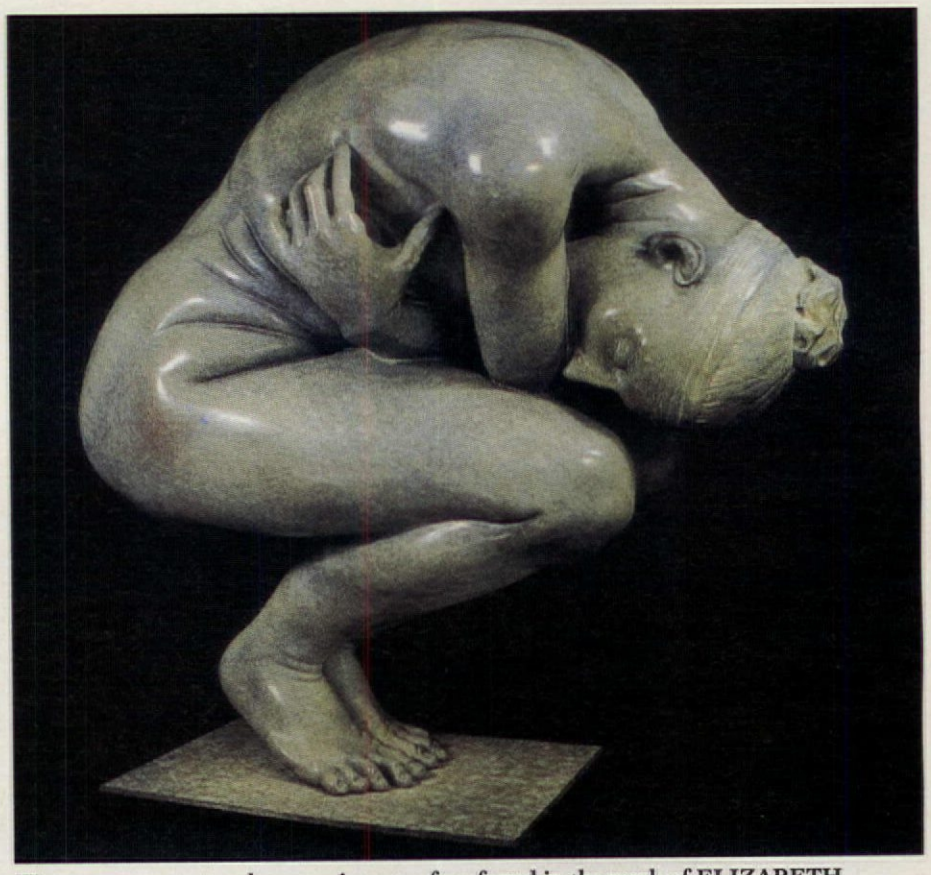


GLADDING MCBEAN terra-cotta planters and urns come in a wide variety of sizes and finishes. *Write in No. 6010*

The owners of this house can sit and enjoy their garden in the comfort of their RENAISSANCE conservatory. *Write in No. 378*



Human movement and expression are often found in the work of ELIZABETH MACQUEEN SCULPTURE, as with this sculpture, "Persephone," a 31-in.-high figurative piece. *Write in No. 715*

ILLAHE TILEWORKS' waterjet-cut porcelain sidewalk tiles are just like the traditional encaustic tiles that identified streets at the turn of the century. *Write in No. 445*

A granite millstone from MAINE MILLSTONES is used as a step for this brick-lined entryway. *Write in No. 4440*

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This custom OAK LEAF CONSERVATORY was an integral part of the surrounding Victorian garden display that was an award winner at the prestigious Chelsea Flower Show last year. *Write in No. 6860*

This freestanding conservatory from TANGLEWOOD CONSERVATORIES is surrounded by formal gardens, a terrace, and pool, and houses a spa, changing rooms, and showers. *Write in No. 8270*

MACDONALD & ASSOC. fabricated this granite water feature, #211, which is available in seven different colors of granite and measures 48 in. long x 22-1/2 in. tall. They are importers, designers, and suppliers of granite, marble, and sandstone landscape products. *Write in No. 752*

AMDEGA'S Jubilee Summerhouse reflects English and Asian influences. Made of cedar, it can be placed on a concrete base or paved terrace (or mounted on a turntable to catch the sun). *Write in No. 768*

Like some three-dimensional Fragonard, this sculpture from ITALGARDEN evokes classical and Romantic themes. *Write in No. 486*

"Spirit of the Guard" was created by GARETH CURTISS for the National Guard headquarters in Camp Murray, Tacoma, Wash. *Write in No. 185*

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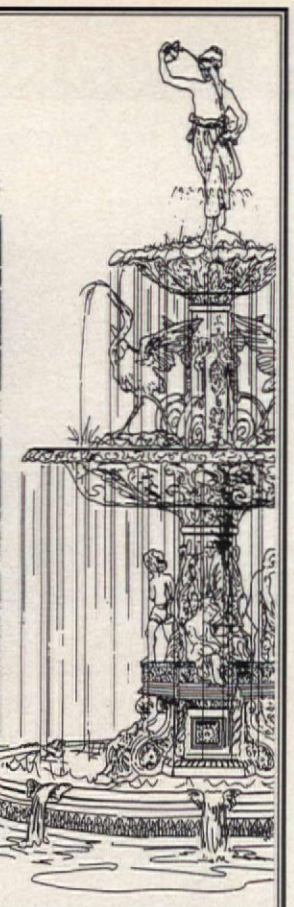

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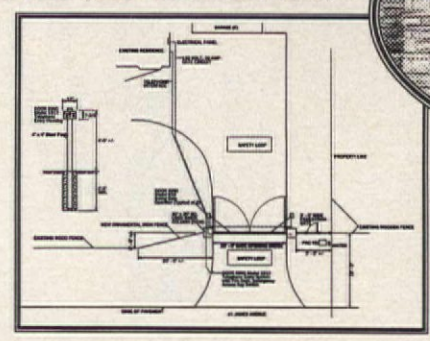

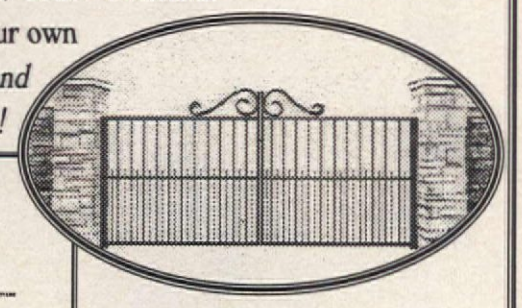

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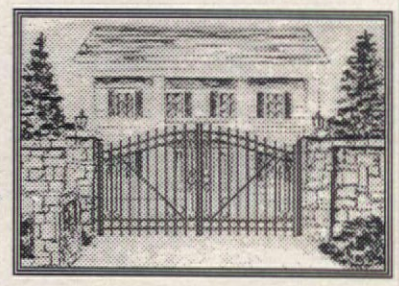

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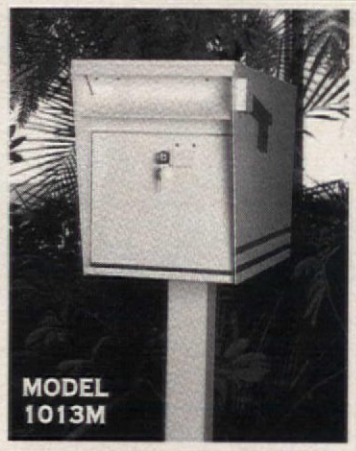

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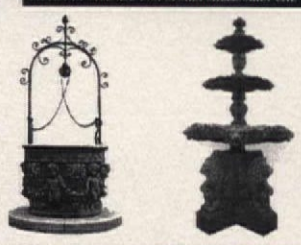

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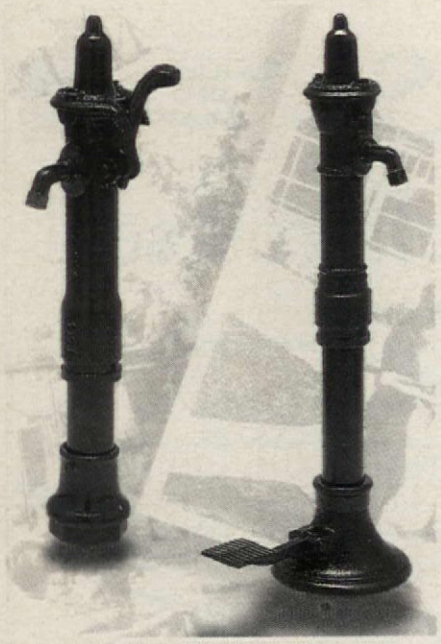
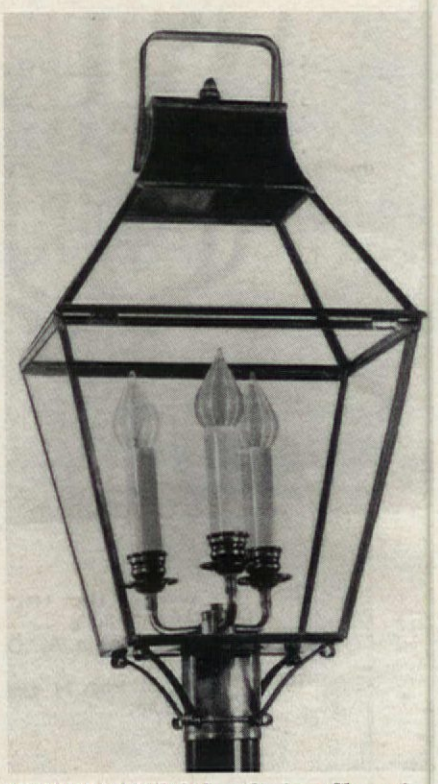
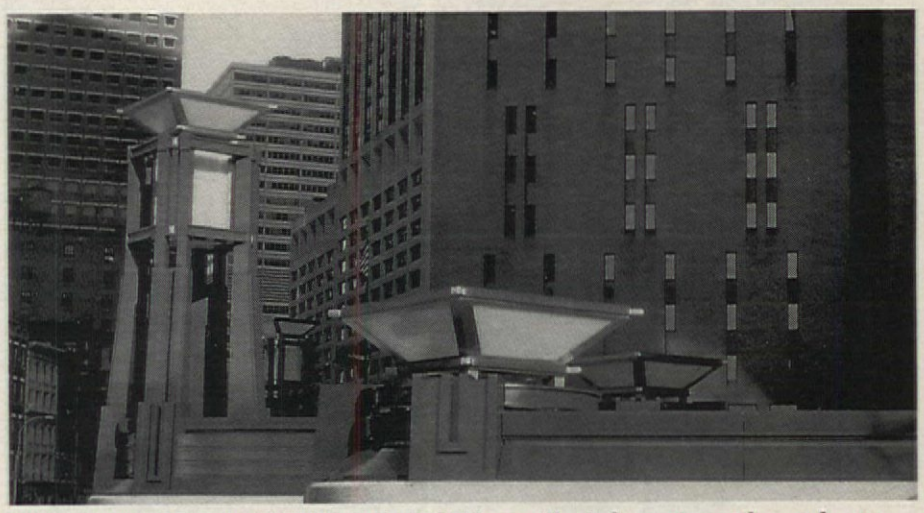


These self-closing hydrants from MURDOCK, #M-175 (left) and M-2000, are designed for year-round use. *Write in No. 3780*



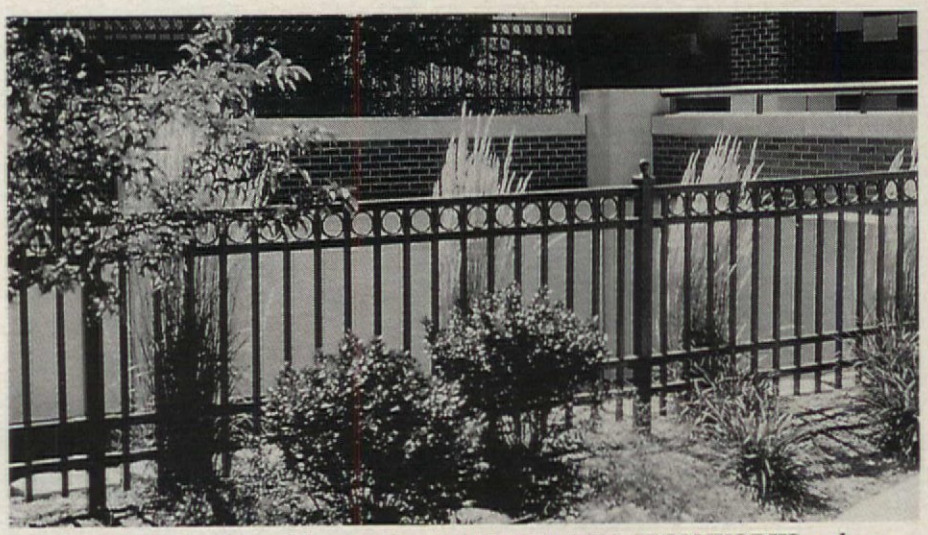
NEWSTAMP'S Salem Series of beautiful hand-leaded solid-brass lanterns are replicas of the lanterns that adorned Salem, Mass., during the Clipper Ship era. This version is 15 in. wide x 11 in. deep x 28 in. high. *Write in No. 800*



THE ORNAMENTAL METAL INSTITUTE provides information and consults on metalwork projects for both interior and exterior. *Write in No. 5430*

MOUNTAIN ORNAMENTAL IRON provides garden ornaments and furnishings cast from original 19th-century patterns, like the charming rabbit and frog that hide among the greenery in this garden. *Write in No. 704*

The Rocket from OTTERBINE BAREBO, INC., is available in models with pumping rates from 16 to 1500 GPM. *Write in No. 705*



The Imperial style of metal fencing from MONUMENTAL IRON WORKS updates traditional fencing designs from a century ago. *Write in No. 6910*

This patient greyhound from NICHOLS BROS. STONEWORKS is just one of their European-design sandstone garden elements. *Write in No. 5980*

These are the tools for creating a MORTEX "Kool Deck" on just about any exterior surface. *Write in No. 3010*

Decorative steel stampings in the FRANK MORROW CO. catalog include realistic leaves from a variety of trees. *Write in No. 1220*

Colonial latches from OLD SMITHY SHOP have hand-hammered beveled edges and are also available with back latch assemblies. *Write in No. 5110*

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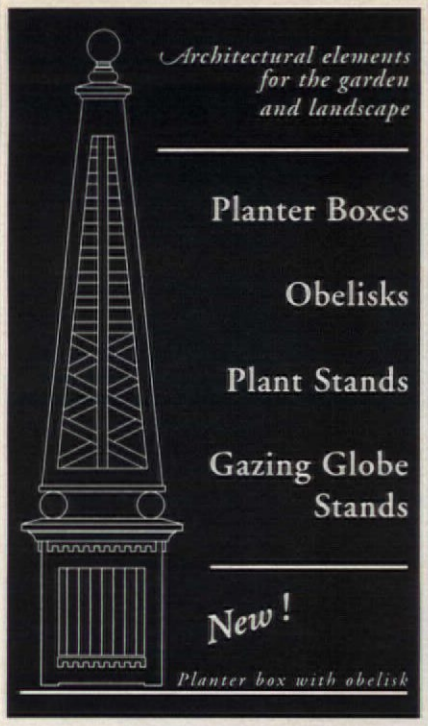

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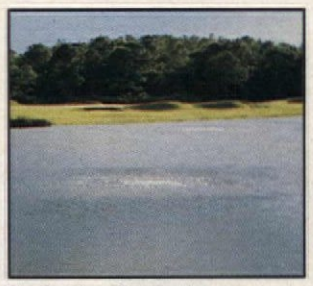

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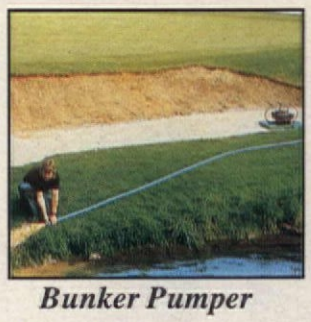

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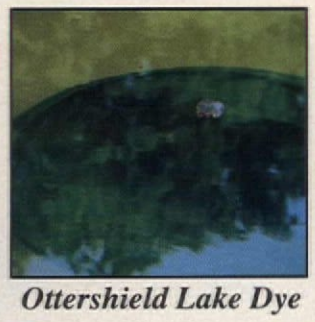

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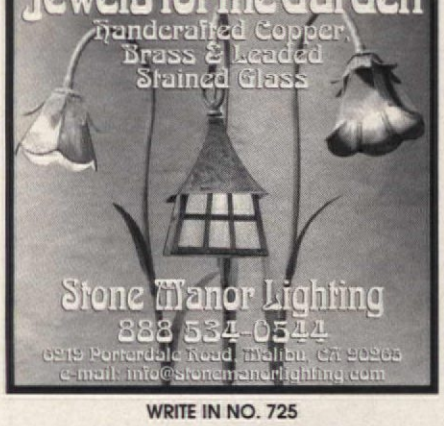

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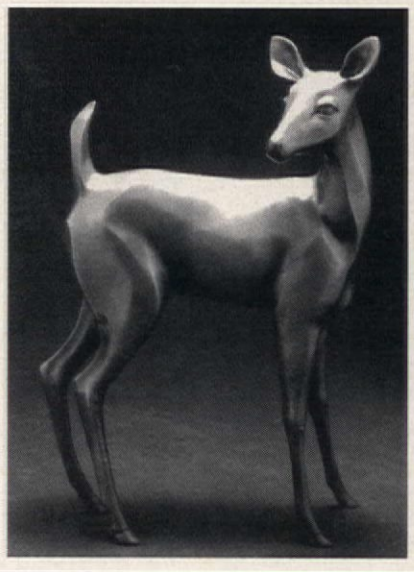

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LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.

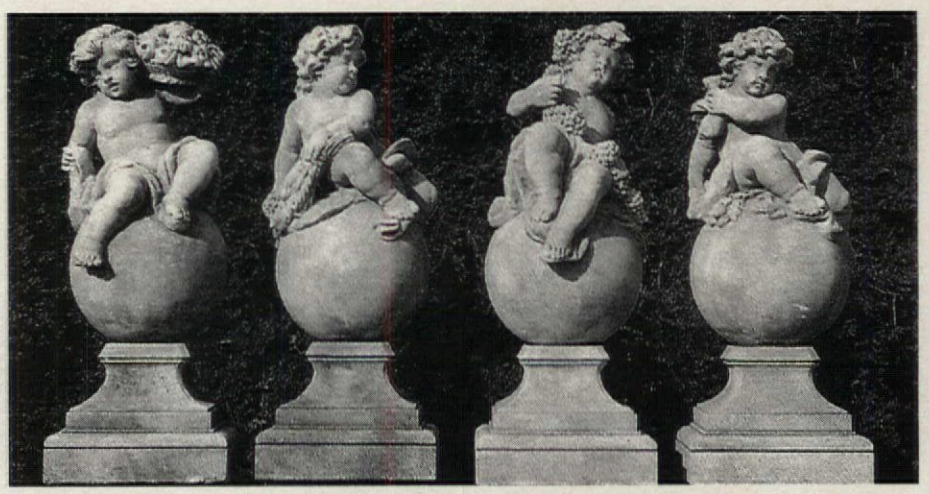
PAINTED GARDEN arbors and trellises, capable of supporting heavy vines, are fabricated in iron with welded and sealed joints. This custom trellis is being installed along a garden wall. *Write in No. 4520*

FREDERICK RAMOND's Arts & Crafts-style post-mounted lamp is shown with a Verdigris finish and Honey iridescent glass. *Write in No. 940*

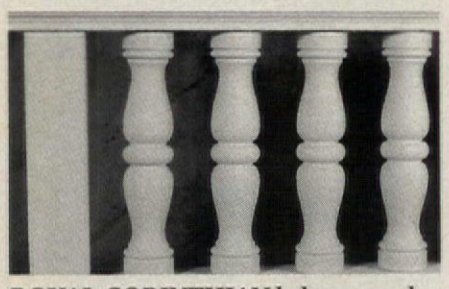
A retail garden center is just one of the uses for one of PRIVATE GARDEN'S commercial greenhouse products. *Write in No. 59*

RISING SUN GARDENS stocks lanterns, bowls, and a variety of garden ornaments from the Orient. *Write in No. 757*

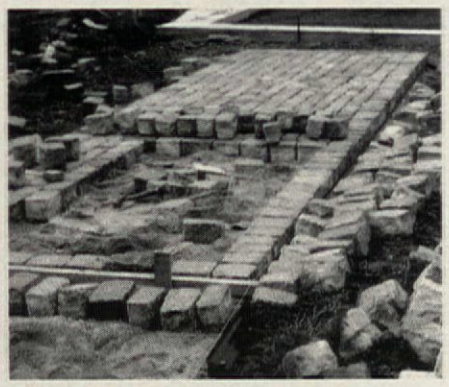
PERIOD LIGHTING's reproduction of the Ashley House post lantern stands sentry outside the doorway of the house, while the original tinned sheet-iron lantern is protected indoors. *Write in No. 301*



Cherubim from ROSSATO GIOVANNI strike poses on post tops carved in Vicenza stone. *Write in No. 6110*



ROYAL CORINTHIAN balusters and railings can be installed between brick or other posts. They have a system weight of 48 pounds per lineal foot. *Write in No. 76*



PAVE-TECH's Industrial Pave Edge is the right choice for thick stones like the granite being set here. *Write in No. 3660*

The Petra series from ROBINSON CONSUMER PRODUCTS includes urns, pots, and troughs handmade with reconstituted marble in classic styles, like this 26-in.-dia. urn and pedestal with an arched motif on the bowl. *Write in No. 732*

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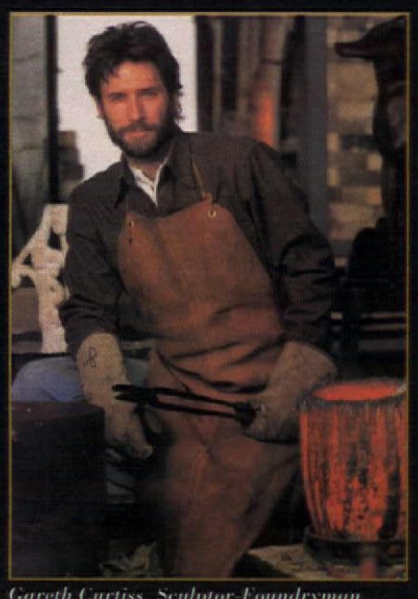

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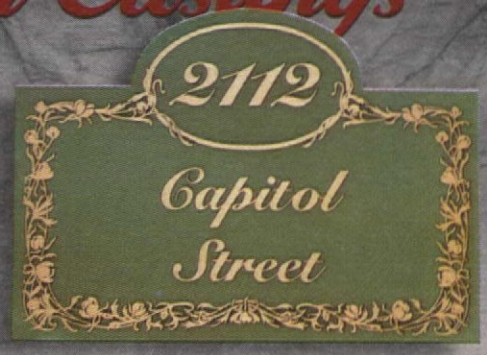

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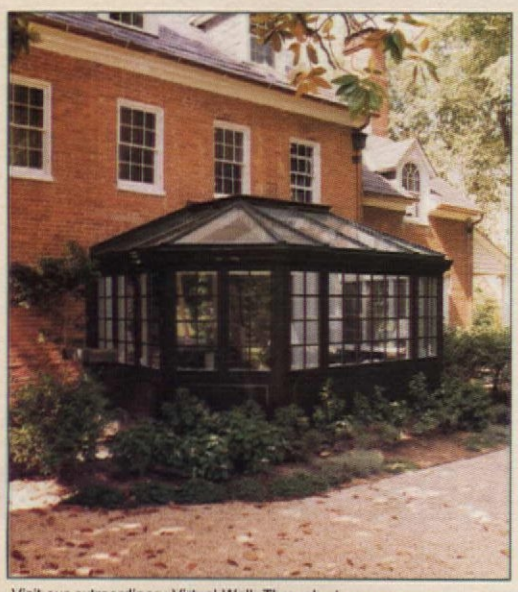

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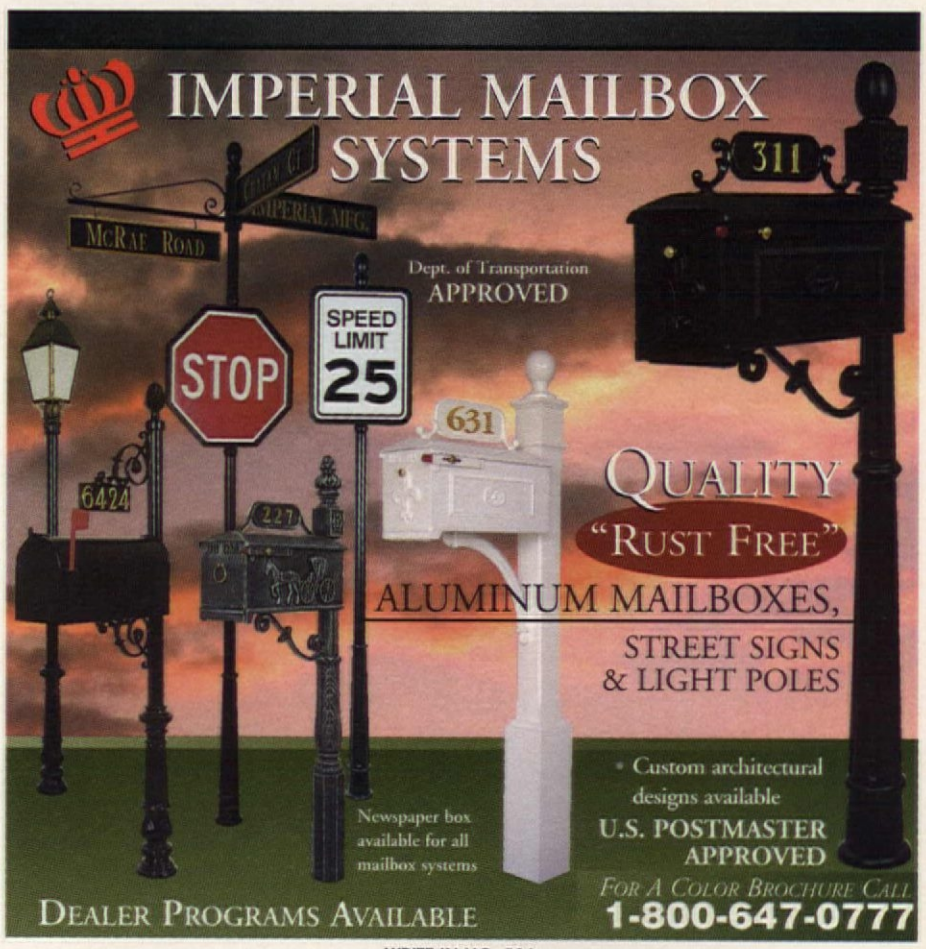
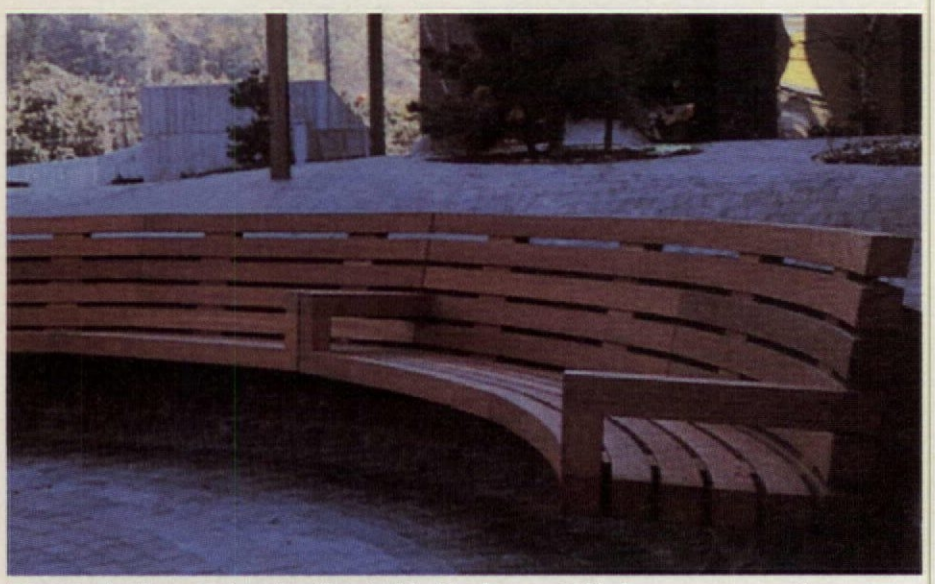


WRITE IN NO. 586

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.

Various shades and sizes of ROBINSON FLAGSTONE paving make this backyard patio a comfort zone. *Write in No. 9790*



The North Shore University Hospital in Manhasset, N.Y., has a custom seating pavilion created by SITECRAFT. *Write in No. 6730*

The marquee at the New York Palace Hotel was fabricated by MISON CONCEPT. *Write in No. 2740*

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• Tennessee Fabricating Co. • Texas Metal Industries, Inc.
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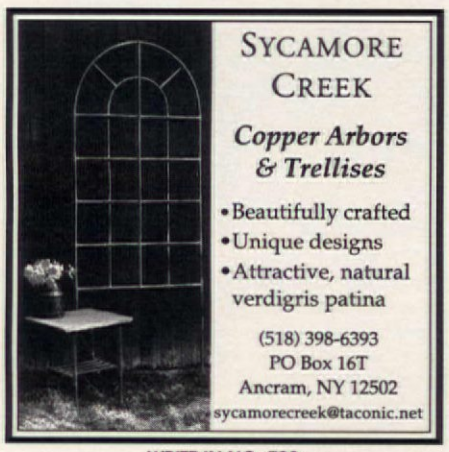
The double-curved roof and Asian-influenced walls of this LEISURE WOODS gazebo are made from Western red cedar. *Write in No. 735*

TROPIC TOP thatch is fireproof and can be installed like ordinary roofing shingles. *Write in No. 3870*

The Windsor bench from SMITH & HAWKEN rises to a double crest in back; the handrests curve gracefully inward. *Write in No. 140*

WRITE IN NO. 121

WRITE IN NO. 3900



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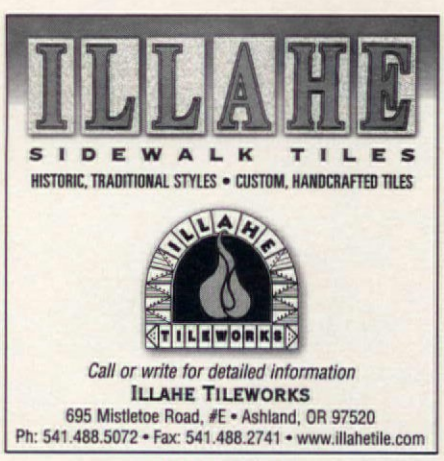

WRITE IN NO. 445

WRITE IN NO. 1160

WRITE IN NO. 214

WRITE IN NO. 508

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

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A fence and gate arbor combination from ROMANCING THE WOODS evokes the picturesque rustic feeling of their wide range of garden and landscape structures. *Write in No. 5010*

The entrance to this estate in Wenatchee, Wash., is introduced by an arbor from NEW BLUE MOON STUDIO, hand-forged in iron with a copper finial. *Write in No. 3900*

Polymer columns from WORTHINGTON are a low-maintenance addition to this relaxed porch setting. *Write in No. 1632 for balustrades, No. 1630 for columns*

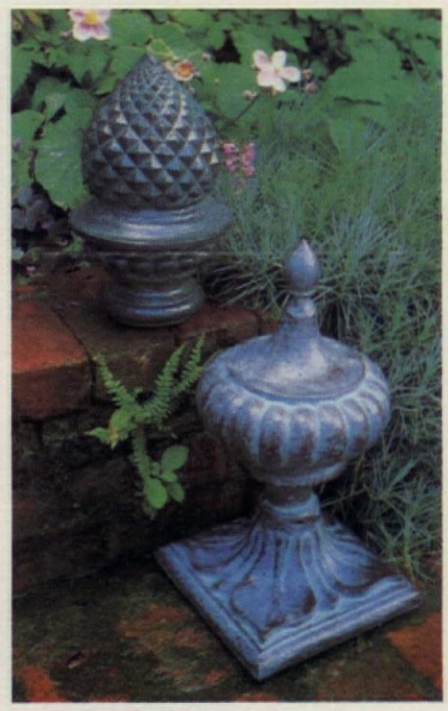
Traditional wooden flagpoles are still manufactured by HENNESSY HOUSE WOODEN FLAGPOLES. *Write in No. 1180*

NORWELL'S model 1900 from the Knightsbridge family is shown in Flemish brass, one of four models in the family of European outdoor lanterns. The five-sided glass design has four candelabra sockets and is 16 in. wide x 36 in. high, with a 15-in. extension. *Write in No. 439*

SYCAMORE CREEK's copper Adirondack Arbor measures 2 ft. x 4 ft. x 8 ft. and is designed to age with a classic weathered patina. *Write in No. 709*

BRANDON INDUSTRIES' P50-M1 cast-aluminum mailbox features a carrier measuring 14 in. high x 20 in. deep x 9 in. wide. *Write in No. 73*

This woven screen is just one of the many decorative garden elements and ornament that BAMBOO & RATTAN WORKS can make with bamboo. *Write in No. 5830*



Cap a fence post or ornament the garden with decorative iron finials from ROBINSON IRON. Shown here, the Pineapple measures 7-1/2 in. high and 6-1/2 in. in dia., and weighs 17 pounds; the Courtyard is 1 ft. 4 in. with a base measuring 8-1/2 in. and a weight of 38 pounds. *Write in No. 3240*

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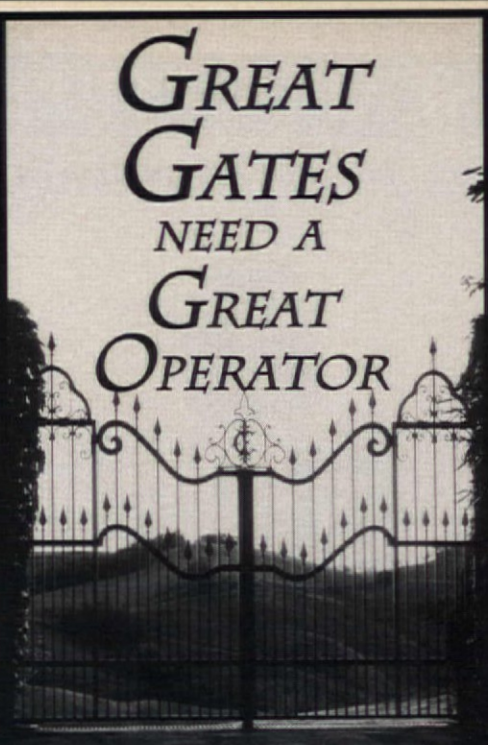

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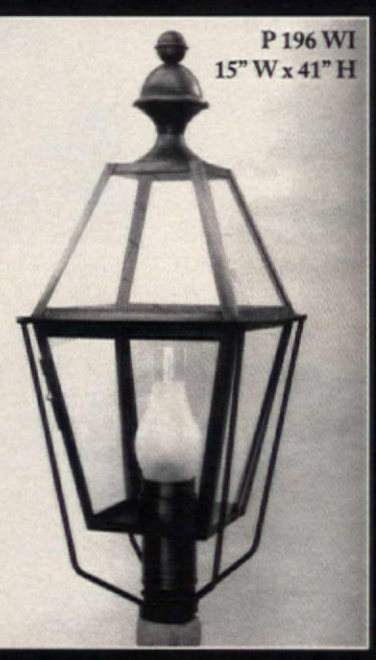

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WRITE IN NO. 527

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

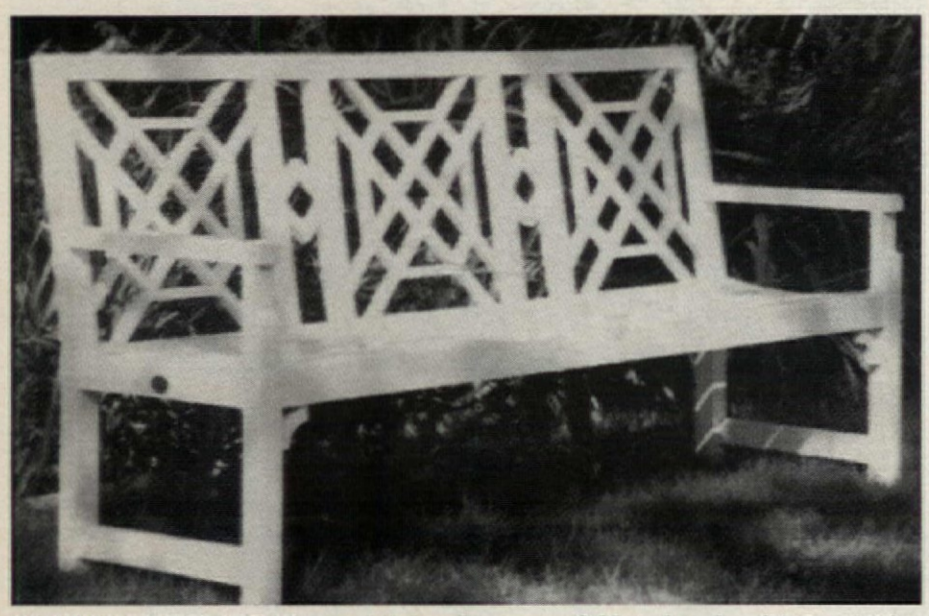
For more information on these companies, consult the SourceList on pp. 126-140.

AARDVARK ANTIQUES' bronze garden-furnishings inventory has included this Fontana Di Quatro Donne, which measures 84 in. high and 54 in. wide. *Write in No. 718*

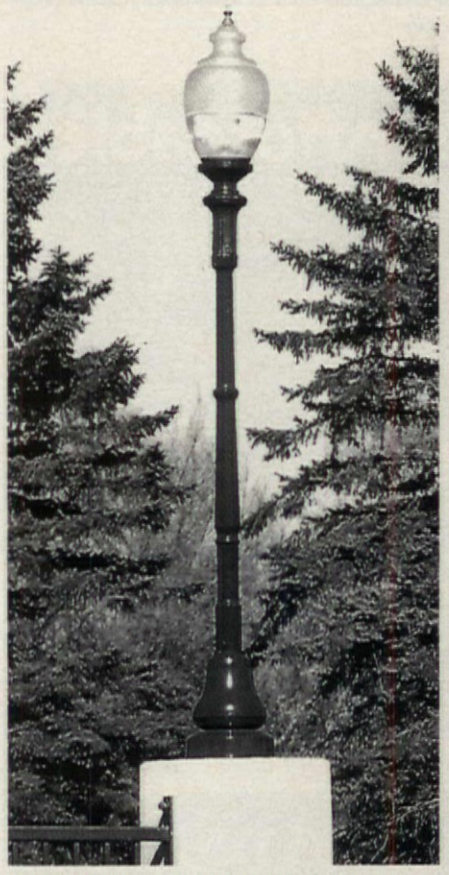
SCIABBARRASI's planters L-58, L-269, and L-258 are made of a resin/fiberglass combination. *Write in No. 4860*

J.H. BAXTER & CO. timber-wood light standards present the natural knots, grain, and characteristics of wood, but are laminated, waterproofed, and treated to prevent decay and damage. *Write in No. 860*

ALLEN-ROBBINS fabricated 580 decorative cast-aluminum bracket arms with custom-painted sign boxes for Chicago's Historic Boulevards project. *Write in No. 1005*



BLAKE INDUSTRIES' Chippendale benches are available in lengths of 4, 6, and 8 ft. *Write in No. 2160*



LEXINGTON STANDARD's Heritage series of spun-tapered aluminum light poles are an economical alternative to cast light poles. *Write in No. 199*

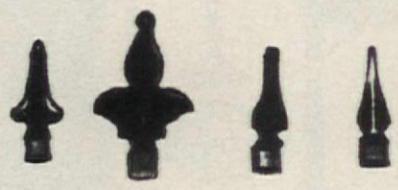
BECKWITH FORGE's capabilities include custom signage, like this sign guiding visitors to one of Atlanta's historic parks. *Write in No. 522*

LAKE CREEK GARDEN FEATURES' red-cedar gazing-globe stand #48 makes a dramatic statement and reflects the beauty of its surroundings. *Write in No. 3640*

The range of historically styled landscape products available from WALPOLE WOODWORKERS are evidenced in this front yard, which has a fence, lantern post, and window box manufactured by the company. *Write in No. 280*

Planters from A&M VICTORIAN are made of a lightweight concrete, just like the company's window surrounds, keystones, quoins, stair treads, and pool coping. *Write in No. 7470*

The Rothesay teak bench from BARLOW TYRIE is available in 6-ft. and 8-ft. lengths. *Write in No. 9540*



ALLOY CASTINGS manufactures metal components for a variety of uses, including these spear points which fit over 1/2-in. sq. elements. *Write in No. 4050*

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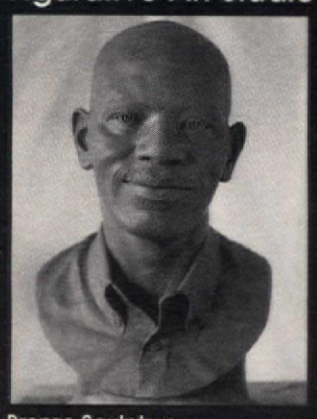

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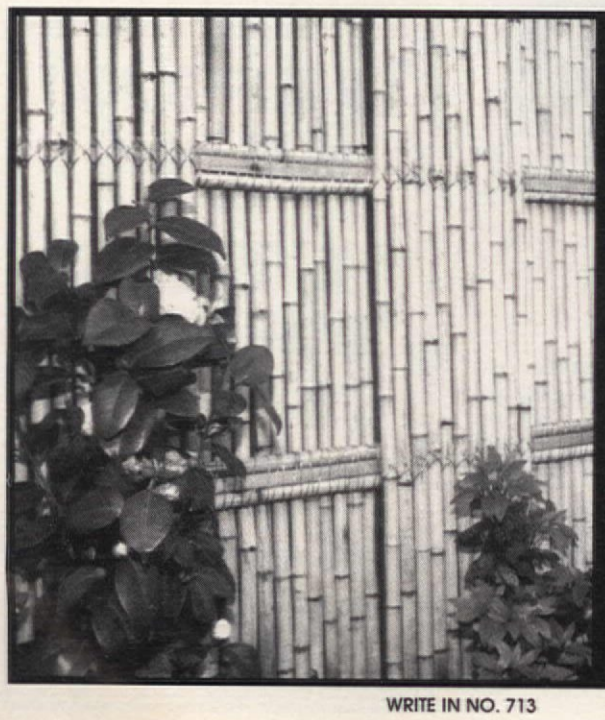

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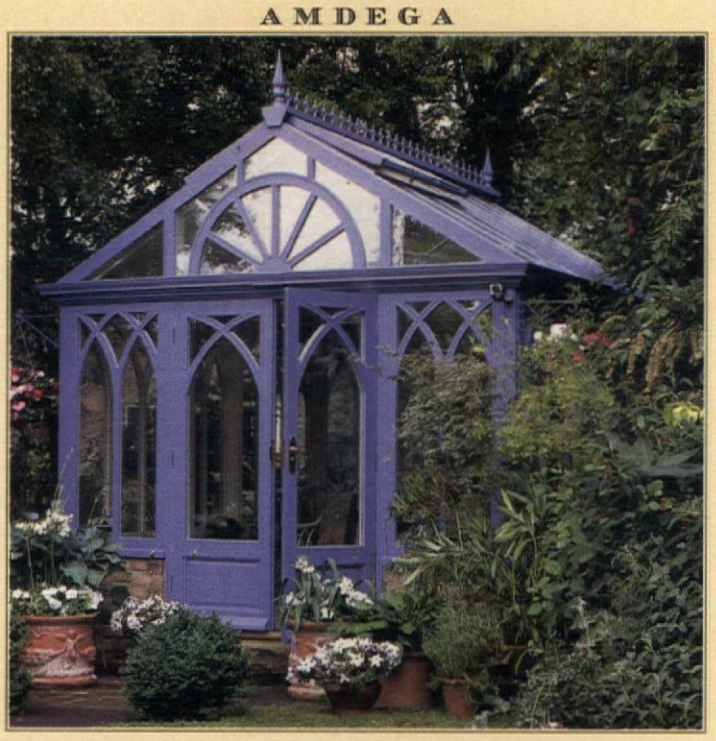

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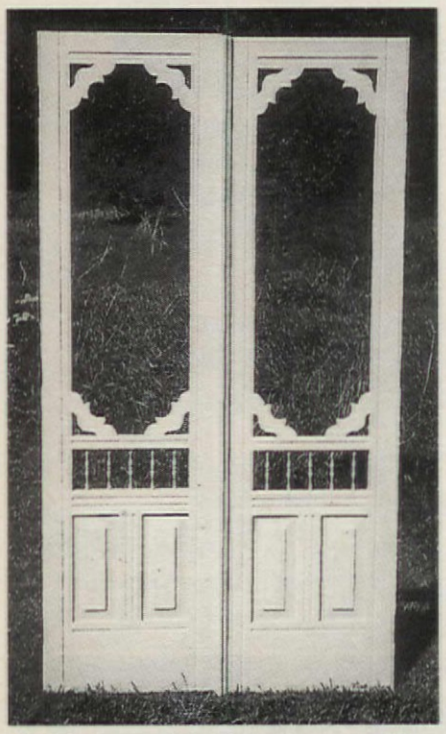
WRITE IN NO. 544

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

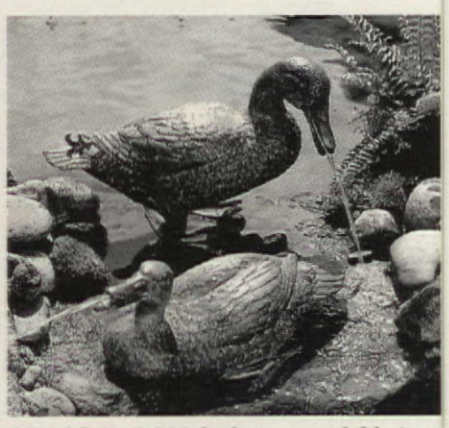
For more information on these companies, consult the SourceList on pp. 126-140.

BOSTON TURNING WORKS' finials #F104 add character to this garden entryway. Standard woods for their finials are pine and mahogany. *Call 617-482-9085 for more information*

BUFFTECH railing systems in vinyl/steel construction feature top and bottom aluminum-reinforced rails for load-bearing strength. *Write in No. 66*



Double screen doors in mahogany with Victorian detailing from WOODEN SCREEN DOOR CO. come with charcoal aluminum screens to keep the great outdoors from coming inside. *Write in No. 544*



BRASS BARON ducks are available in a range of sizes, from birdbath-size to the lifesize fountain models shown here. *Write in No. 200*

The Oakmont full-circle bench from D.M. BRAUN has an interior diameter of 36 to 60 in., and is available in a wide variety of hardwoods and finishes. *Write in No. 512*

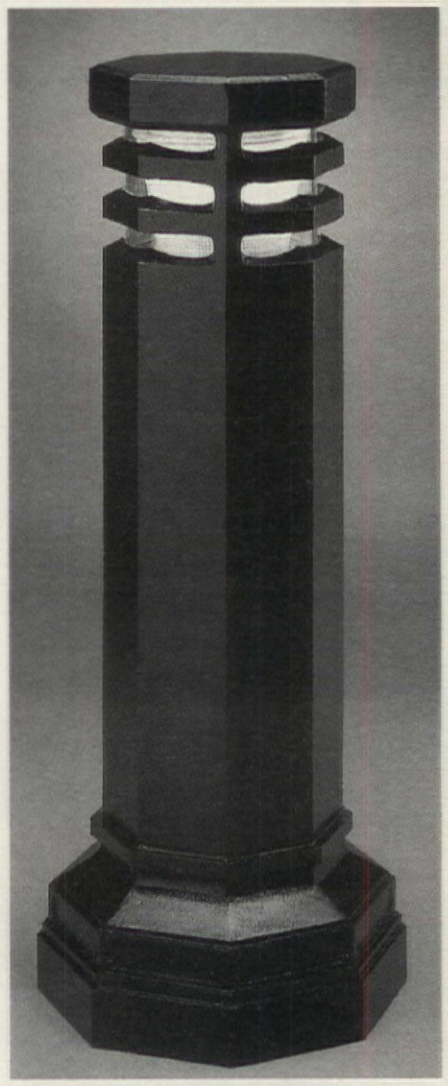
In addition to fountain products, CUSTOM CASCADES is now manufacturing faux boulders and rocks. *Write in No. 1550*

The grasspave porous paving system from INVISIBLE STRUCTURES is made from recycled plastics, and was used on this patterned field. *Write in No. 2310*

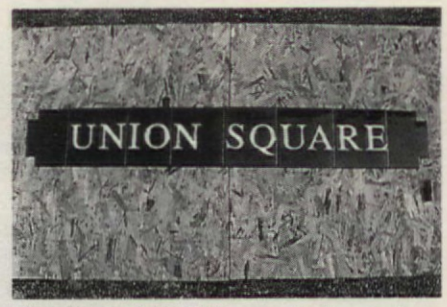
KEYSTONE RIDGE DESIGNS' McConnell series bench (patent pending) is made of steel, but designed to reflect the Arts & Crafts Movement. *Write in No. 728*

Handmade grape clusters and leaves forged by INDITAL were used to ornament this outdoor lantern. *Write in No. 6560*

Acorns, lantern tops, balls, and square caps are among the endless variety of post caps available from ISLAND POST CAP. *Write in No. 702*



The Pacific bollard from KING LUMINAIRE is highly vandal-resistant and can be outfitted with a choice of lighting sources. *Write in No. 3410*



TERRA DESIGNS' ceramic signage is installed in many high-traffic areas, including this "Union Square" subway station. *Write in No. 2790*

The Fiesta Cart from the TOOTERVILLE TROLLEY CO. creates an instant concession stand, with two stainless-steel-insulated liners and drains. *Write in No. 503*

Handsome cast-aluminum inserts in an X pattern, fabricated by J.G. BRAUN, complete the look of this railing. *Write in No. 1390*

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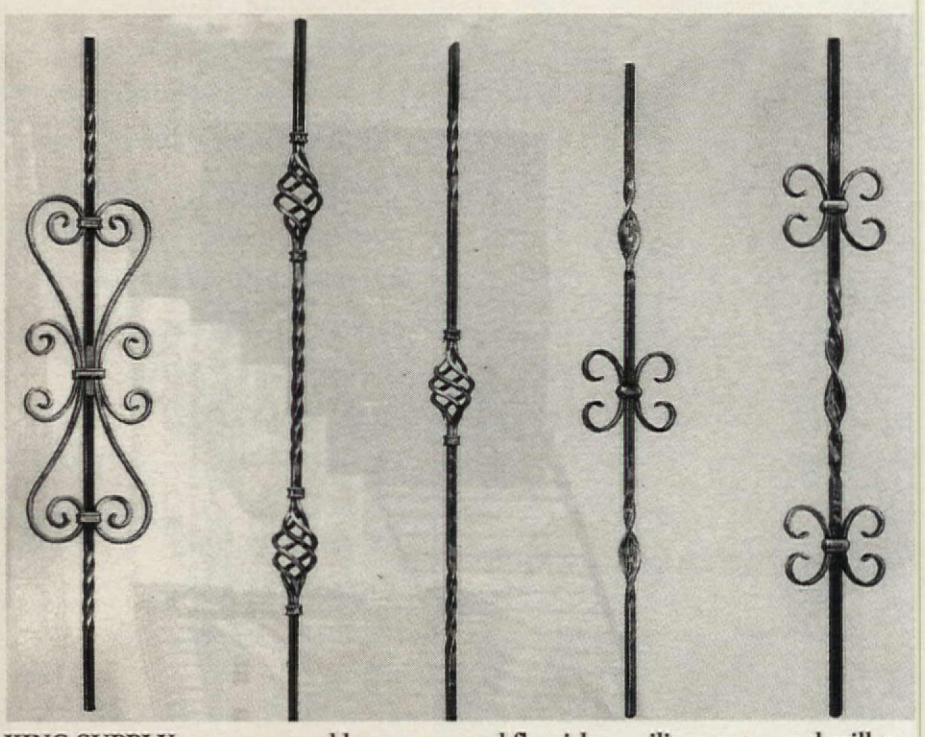
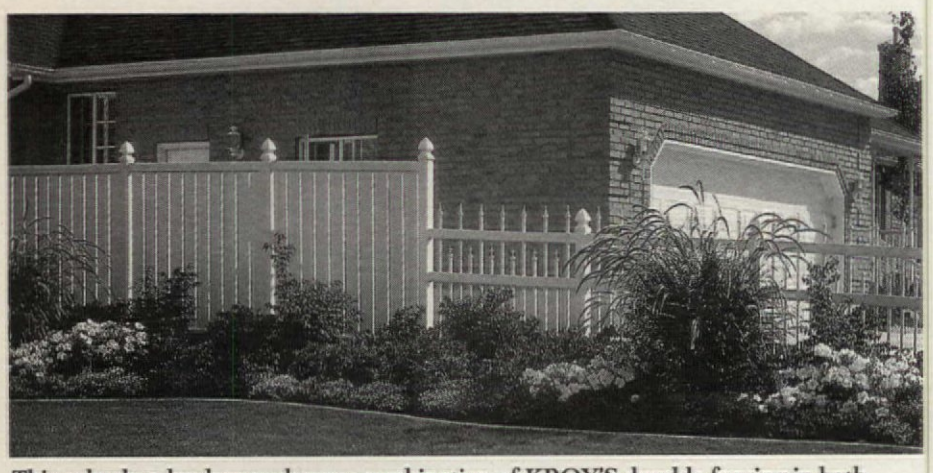
WRITE IN NO. 481

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

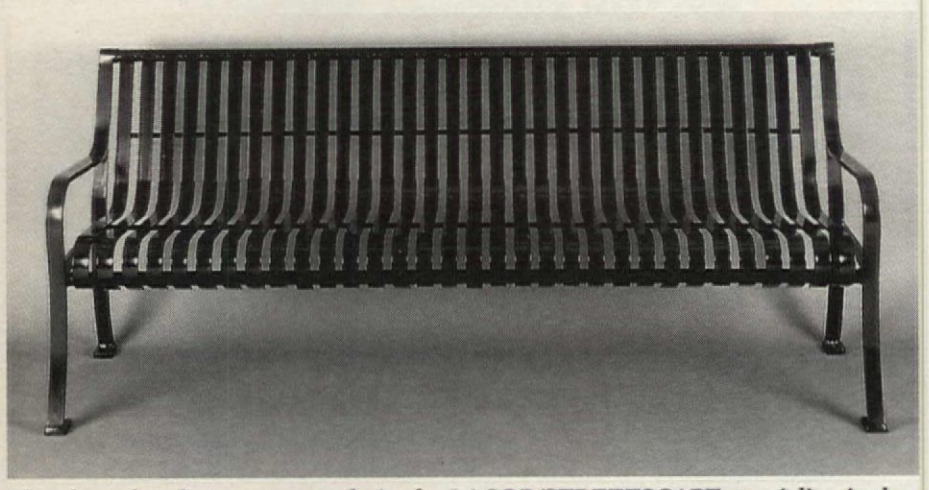
For more information on these companies, consult the SourceList on pp. 126-140.



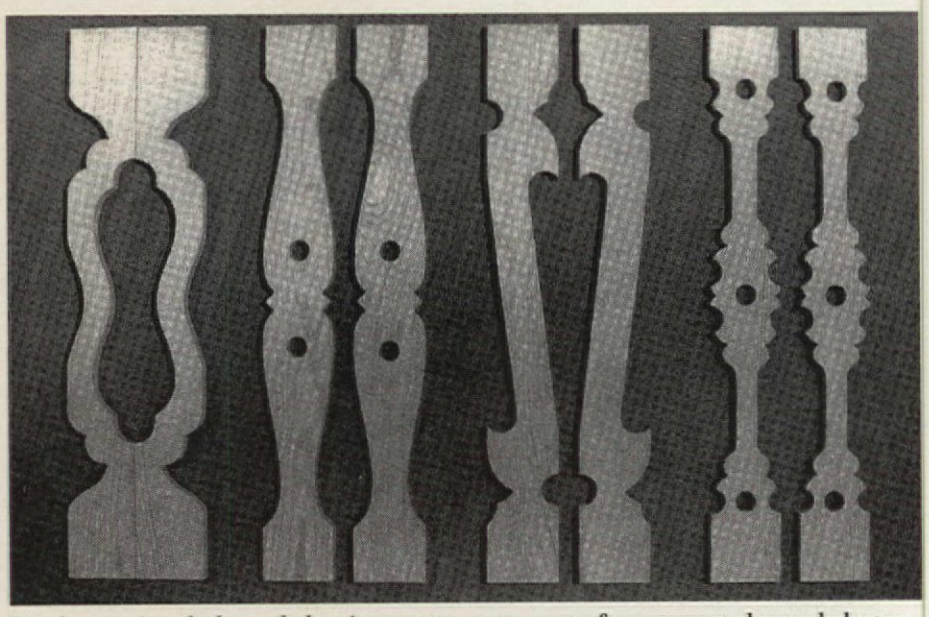
KING SUPPLY components add an ornamental flourish to railings, gates, and grilles. *Write in No. 418*



This suburban landscape shows a combination of KROY'S durable fencing in both privacy and ornamental styles. *Write in No. 82*

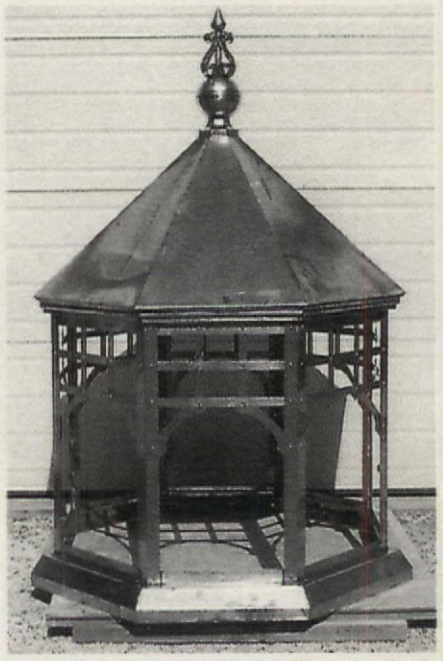


This classic bench was a custom design by LACOR/STREETSCAPE, specialists in the design and manufacture of transit, urban, and landscape furniture. *Write in No. 727*



Porches, patios, decks, or balconies are opportune spots for ornamental sawn balusters from ANTHONY WOOD PRODUCTS. Shown from left are models #s 102, 101, 106, and 104. *Write in No. 14*

The Fitchburg Savings Bank in Massachusetts gets noticed for its VERDIN CO. four-sided personalized street clock, with footer and clock face identifying the bank. *Write in No. 4350*

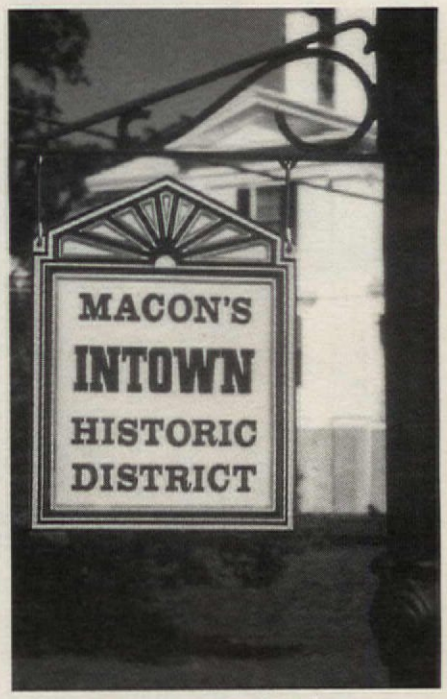


VULCAN SUPPLY CORP.'s 5-ft.-high lantern was created to illuminate a gazebo, and the design copies gazebo styling. *Write in No. 7212*

Large "Boston" street lights from LIGHTING BY HAMMERWORKS illuminate the path to this house of worship. *Write in No. 5090*

Ornamental castings and forgings from TEXAS METAL INDUSTRIES range from small parts to lighting, like this four-arm street lamp. *Write in No. 9430*

WARD GREENHOUSES can incorporate antique greenhouse and conservatory elements into its new custom designs. This one utilizes traditional materials like wood shakes. *Write in No. 766*



Historic street signs and markers are available from LAKE SHORE INDUSTRIES, who created this Victorian-influenced historic-district marker, located in Macon, Ga. *Write in No. 8730*

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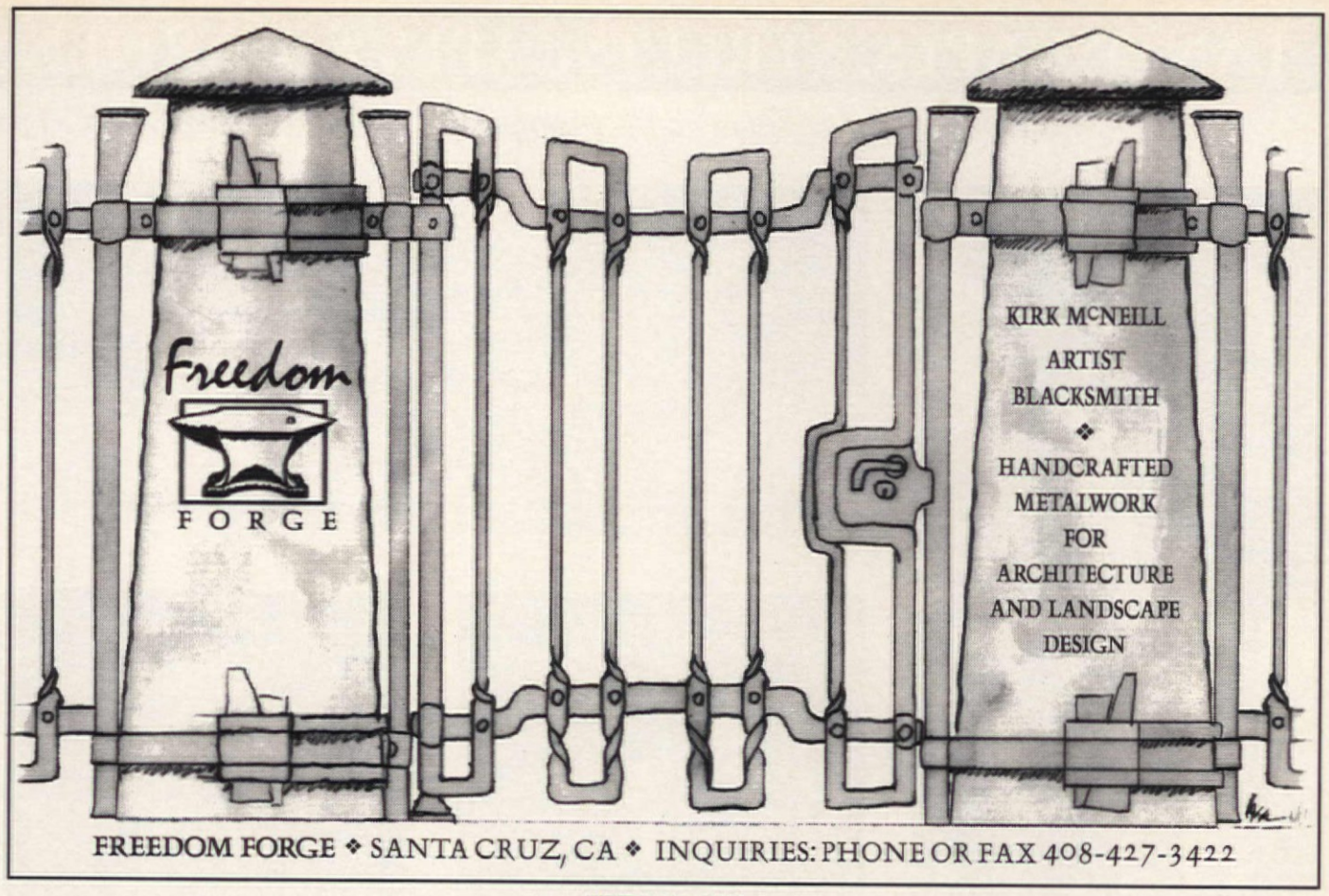

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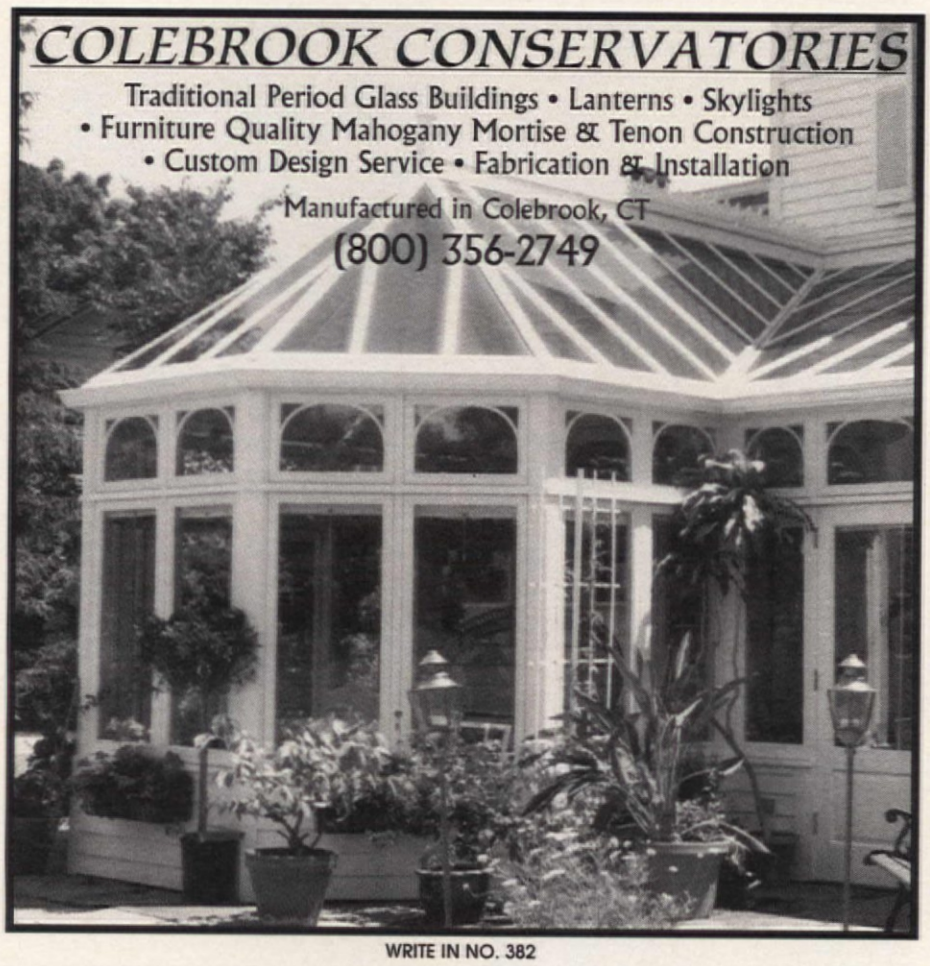

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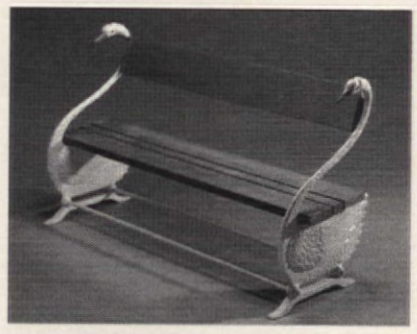

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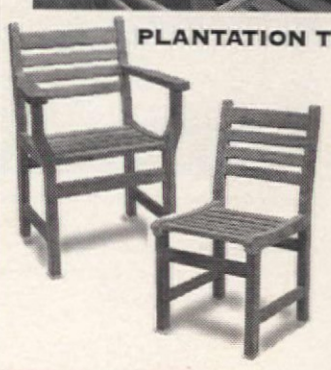

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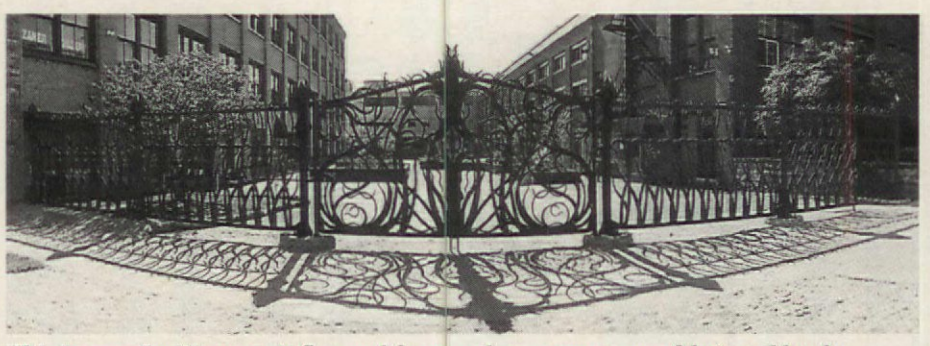
WRITE IN NO. 7620

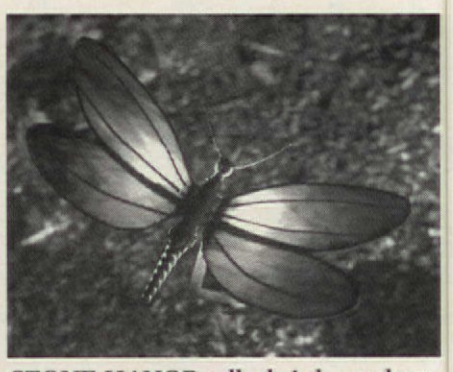
LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 126-140.

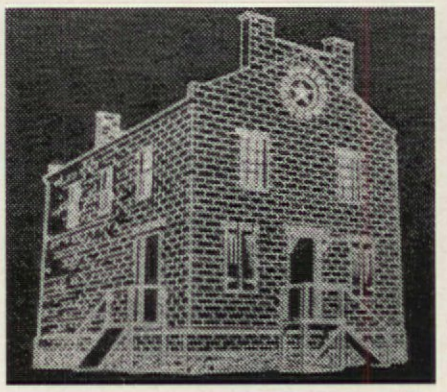
Porch sitting takes an elegant turn when done under grand Corinthian columns like these from MELTON CLASSICS. *Write in No. 4100*



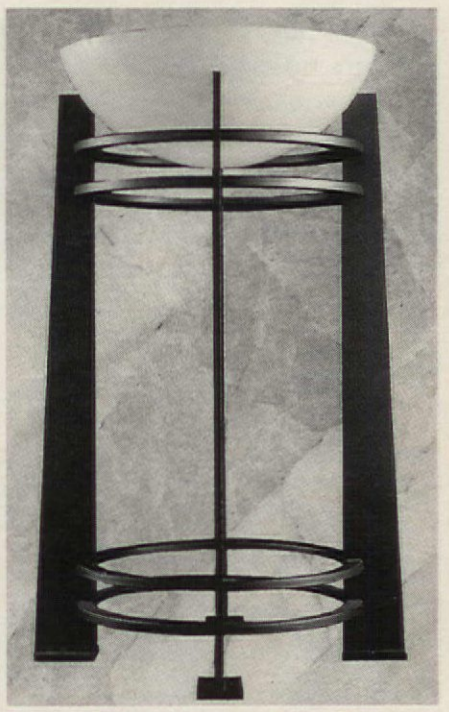
This impressive Nouveau-influenced fence and gate system was fabricated by the craftspeople at METALMORPHOSIS. *Write in No. 1190*



STONE MANOR calls their low-voltage brass and copper stained-glass lights "jewels for the garden." Designs include lanterns, flora, and fauna, including this dragonfly. *Write in No. 725*

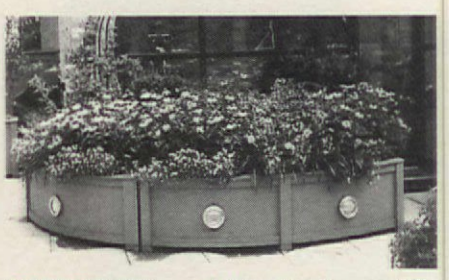


Historic-site plaques are a specialty of SMITH-CORNELL, like this one placed on the historic "Brick Store" in South Carolina. *Write in No. 460*



Custom lighting is a specialty of ST. LOUIS ANTIQUE LIGHTING, who fabricated this geometric Art Deco plaza light for a corporation in Dallas, Tex. *Write in No. 6190*

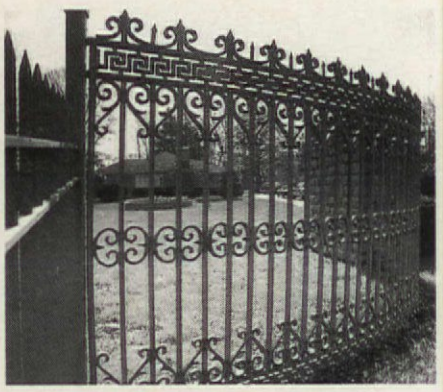
The Newburyport Street light from METAL SPECIALTIES OF BOSTON has been used in many cityscapes seeking colonial-American styling. *Write in No. 722*



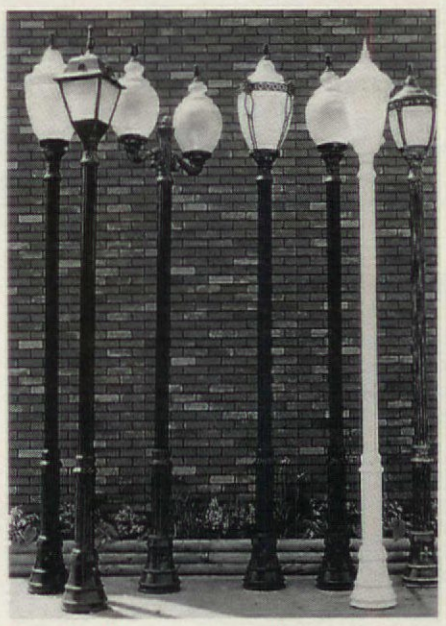
MILLS & CO. specializes in site-specific pergolas and planters. These planters on a rooftop garden include built-in outdoor lighting. *Write in No. 6670*

SWEEPSTER manufactures a range of landscape-maintenance products, like this vehicle. *Write in No. 238*

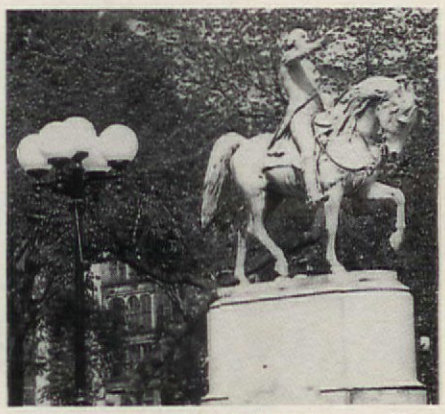
SEIBERT & RICE's Impruneta terra-cotta collection includes this large ornamental planter, with sirens and demons interspersed with garlands and rosettes. The piece measures 24 in. in dia. by 18 in. high. *Write in No. 5500*



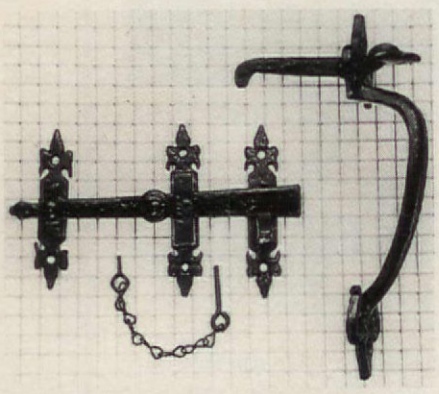
STEWART IRON WORKS manufactured and installed the iron railings on top of the retaining wall and widows' walk, and restored the carriage and walk gates in front of President William H. Taft's boyhood home. *Write in No. 9910*



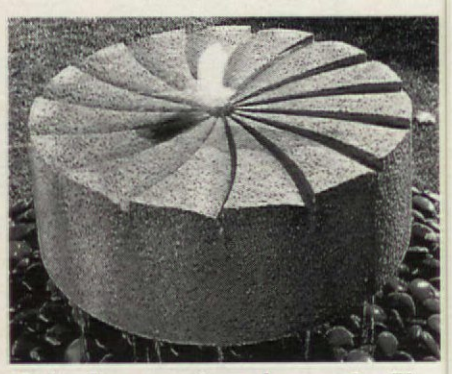
Looking like guards standing at attention, MEL NORTHEY'S historically styled lanterns provide streetscapes with the security of illumination and fit in with period-style settings. *Write in No. 55*



SENTRY ELECTRIC CORP. manufactured the "Battery Park" luminaire and pole, manufactured for New York City's Battery Park City. *Write in No. 497*



MAGUIRE IRON manufactures gate hardware with hand-forged character, including the front and back latch shown here. *Write in No. 7600*



Made of rose granite and measuring 30 in. wide by 10 in. thick, with a hand-carved granite base, STONE FOREST'S fountain is a novel use of the millstone form. *Write in No. 1108*

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RED SUSPENDERS TIMBER FRAMES built the roof systems of pavilions located throughout the community of The Woodlands, Tex. *Write in No. 1025*

ROYALSTON ARTS FOUNDRY cast trumpeting putti in a range of finishes, used as garden adornments.

Artistic metal creations are the work of JEFFERSON MACK METAL, like this gate, which evokes both security and grace. *Write in No. 1079*

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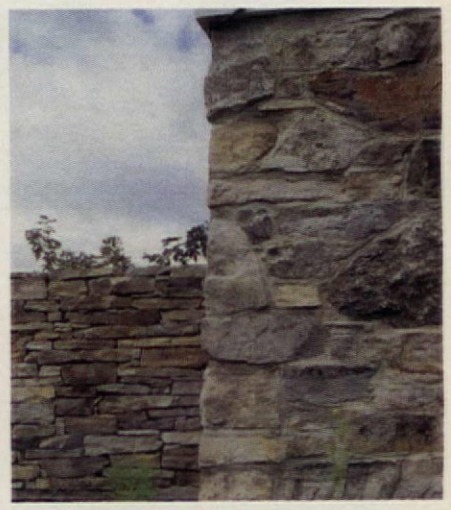
BRIDGE BUILDERS specializes in walls and bridges for golf clubs, and built this elegant span for the Alaqua Country Club in Longwood, Fla. *Write in No. 3991*

REJUVENATION's Monterey Ceiling Mount lamp with Cloudlift design is UL-listed for damp locations, and illuminates the eaves of this Arts & Crafts-influenced location. *Write in No. 7630*



Over 118 tons of South Bay quartzite stone was used in the walls of this residence. The foreground walls are mortared, the background ones are dry stacked, and all from CHAMPLAIN STONE. *Write in No. 4270*

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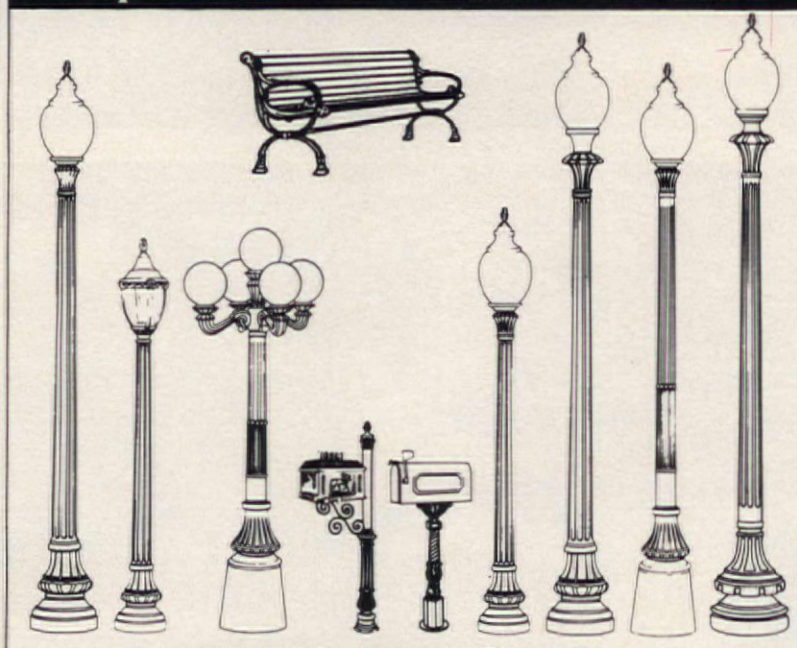

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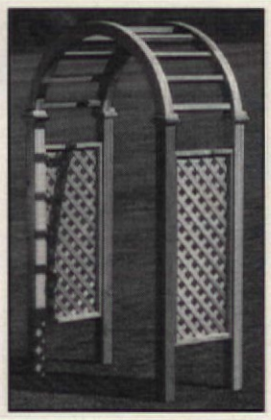

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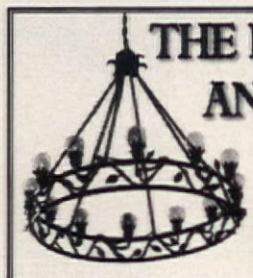

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dug out as well), I removed several small groups and clipped the rest back. This created open areas into which I later built stone-faced planters. Already the area seemed considerably larger, but much more was still possible. I wanted to divide the long axis into three separate-but-joined areas all of their own purpose and composition, yet all combining to form a unified whole. This combination of separation and unification is of great importance in creating a sense of expansion in limited spaces.

Creating another horizontal plane within an area (by terracing) lifts the eye and carries it further toward some remote point, especially if the termination of the vista is not completely apparent. The proportion of the vertical plane to the horizontal planes created is important. If too tall, it stops the eye, and thus the motion, creating a barrier rather than a transition and makes the horizontal plane seem smaller. If too low, it simply looks unnecessary and foolish. Likewise, the proportions of the two horizontal planes is important. Each area should be large enough to invite use, appear functional, and support the necessary aesthetic elements to render it beautiful (sufficient planting, for example). Further, one area should not be so large as to make the other look small.

To begin this division into separate rooms I built a (low) 18-in. wall in an arc, creating an upper platform. I made the upper plane about 20 ft. deep, giving it ample room to allow for a thicket of planting (to help screen traffic noise) and a fountain which would serve to catch the eye from the garden entrance, creating a very definite sense of extension upon entry from the deck or street. The falling water also serves to hide unwanted noise. The curve of the fountain wall harmonizes with the curve of the retaining wall, contributing to the sense of unity of place, an important consideration, especially when intentionally creating divisions. I could have made this plane a little larger without harm, but had I made it any smaller it would then have seemed too small and confined in comparison to its lower mate.

I further divided the lower patio created by this retaining wall with an arbor (soon to be covered in roses) creating an intimate sitting area near the deck which flows into the larger, more formal area allowing for the circulation of guests or simply inviting the visitor onward. These three separate-yet-joined spaces give the sense that the garden just goes on and on. Detailed with water gardens, flowing lines created by random placement of bluestone, and rich planting groups (as previously discussed), furthers this sense of expanding space, infinitely detailed. Here one is invited to enjoy the vista from the redwood deck, sit quietly in the intimate patio by the lower pool, throw a party with 40 guests, sit on the lawn in the upper terrace and dangle one's feet in the pond, pick flowers, dine, or tend to the garden. Limits to what one can do here have been lessened through design.

Go Down To Get Out

This next landscape **(Project VI)** doesn't appear to ever have had a size limitation, but it was, in fact, completely unusable. There was a somewhat level area off the deck, about 12 ft. wide and running the length of the house. This slightly sloping surface dropped suddenly in a slope that ran down to the rear property line about 40 ft. beyond. The edict from the owner to me was, "find a way to put a pool in here or I'm moving."

VI. BEFORE: A sloped site with a small level area offers little outdoor living. Here is where we placed the pool.

There are two ways to enlarge the living area of a slope. Build a wall at the bottom of the slope and fill with soil (thereby eliminating it) or terrace. Though others favored the first solution, proposing a $100,000 concrete wall, I felt a more aesthetic (and less expensive) approach appropriate. Cutting deeply into the slope with a nearly vertical slice and retaining the subsequent bank with large boulders allowed me to level out the grade at the base of the slope. This generated about 30 ft. of level area, which is where we put the pool, spa, cabana, gardens, water garden, and walkways.

These "after" images were taken eleven years after construction. The owner told me recently that he floats out on the water, looks around, and still cannot believe it. All the result of a little site planning with the purpose of enlarging through design. ■

Keith Davitt is a landscape designer/builder, writer, and photographer based in Park Slope, Brooklyn, N.Y., who works throughout the country. Contact him and/or receive a copy of his gardening newsletter at: Gardens, 56 Seventh Ave., #2, Brooklyn, NY 11217; phone (718) 857-1787; e-mail kpdav@aol.com.

VI. AFTER. Top to bottom: 1) Cutting down through the hillside and retaining the bank with stacked boulders allowed us to create a level area about 40 ft. wide and the full length of the property. 2) Keeping as many existing trees as possible, we nestled the cabana into the hill at the pool's shallow end. This newly created space is also home to a fish pond and terraced planting beds. 3) A waterfall spills into the spa from the wall and into the pool from the spa, helping to integrate the pool into the area that overlooks it. 4) Strong planting along the pool's edge heightens the sense of the natural and helps achieve a quality of mystery and discovery as the visitor follows the adjoining path. *(All photos: Keith Davitt)*

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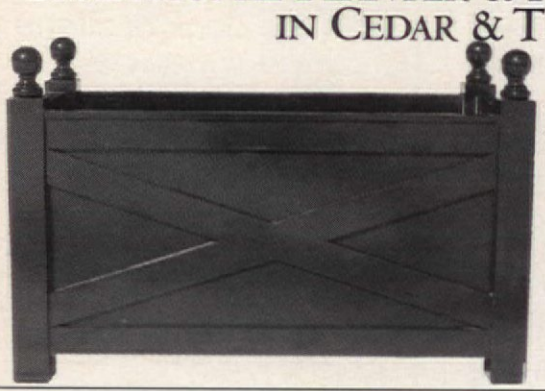

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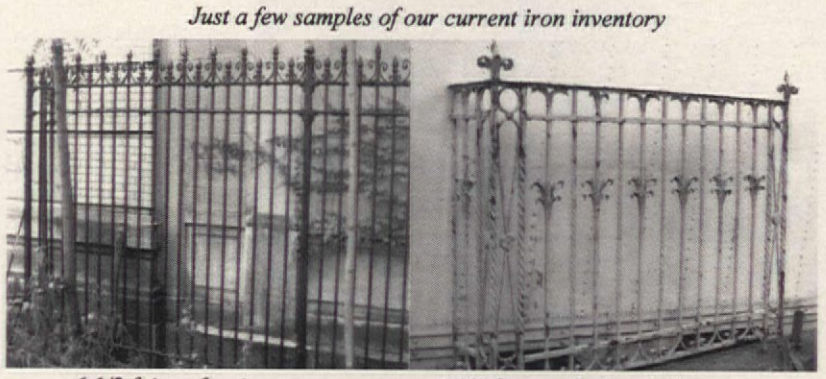

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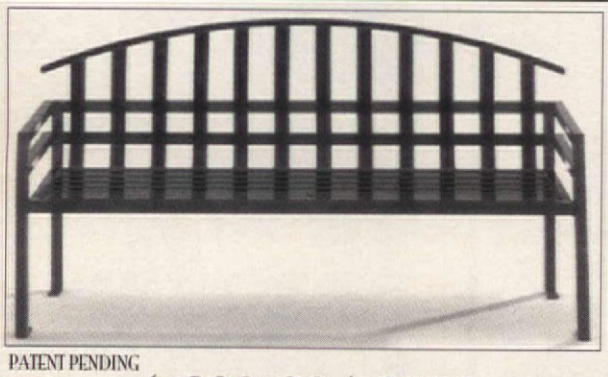

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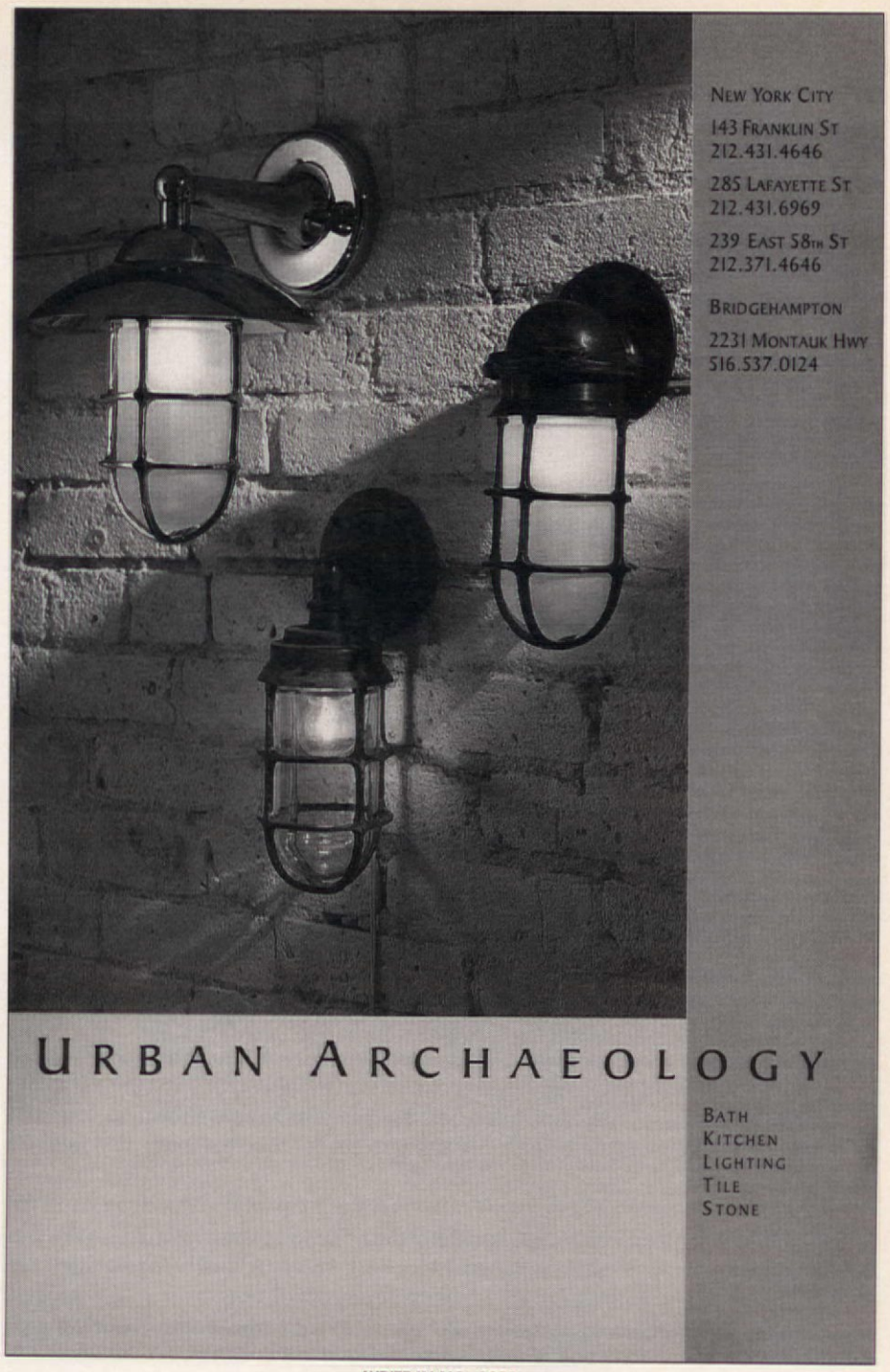

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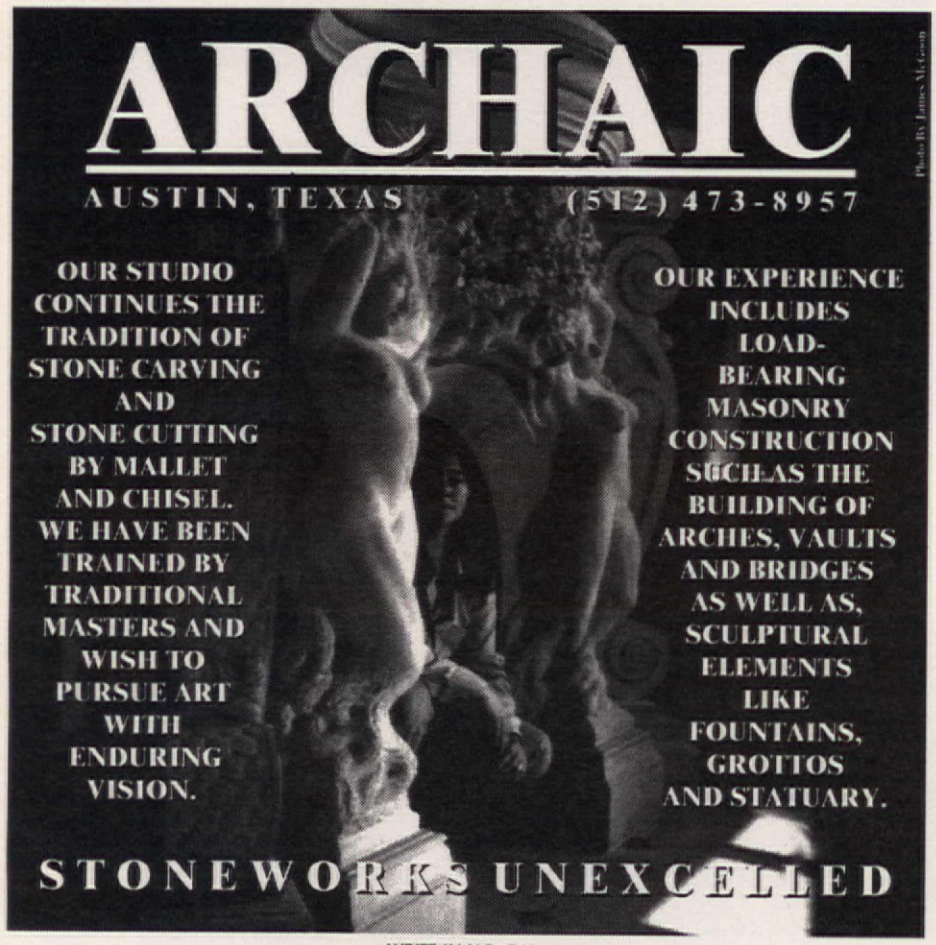

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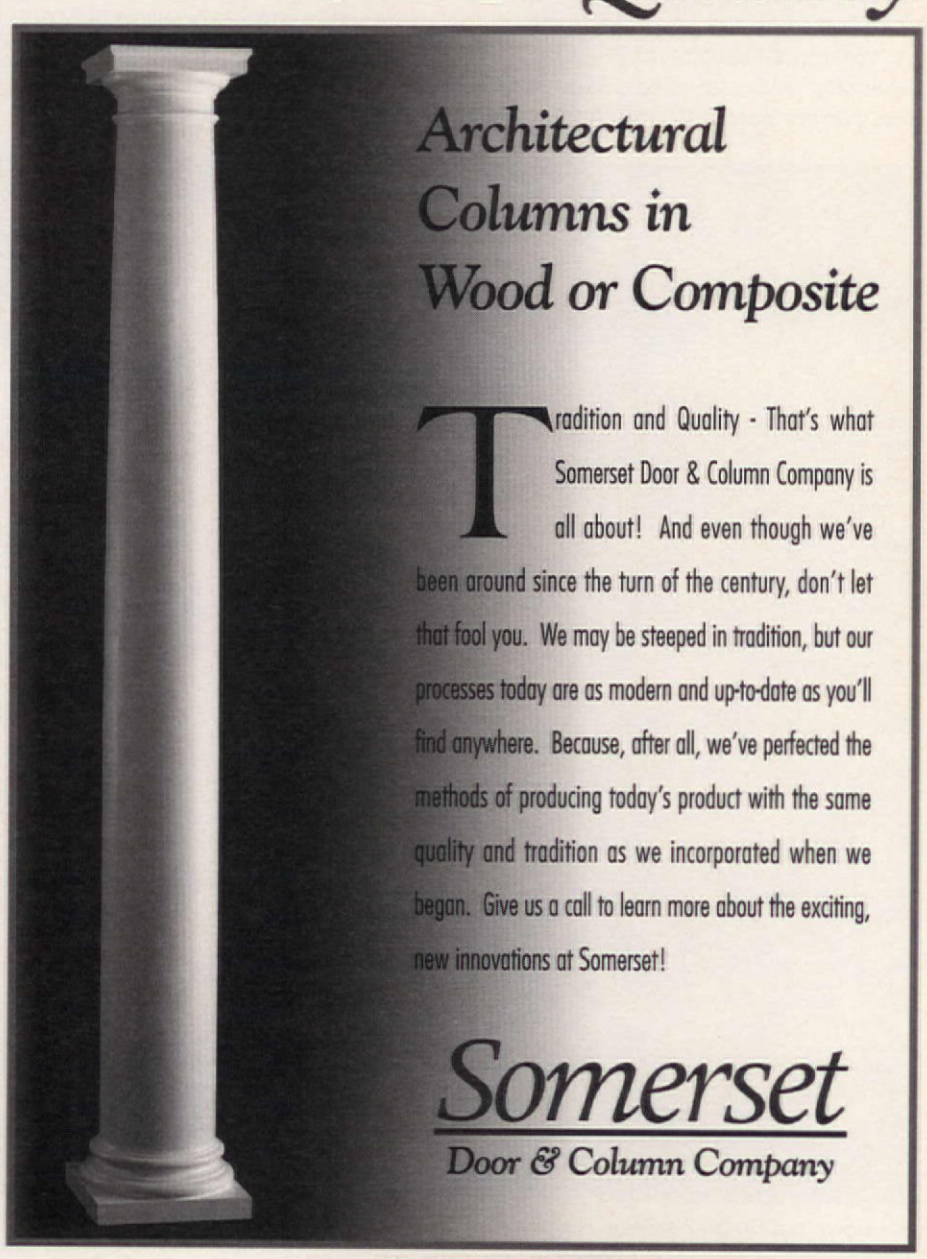

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ANN BEHA, continued from page 9

ing with the New England Conservatory of Music in Boston for almost 20 years. In a very demonstrable way, the firm's work on the Conservatory's four buildings (dating from 1890 to 1950) has helped the institution remake itself as a year-round cultural force. In 1995 the firm completed an extensive $8.2 million renovation of Jordan Hall, the conservatory's renowned concert hall. Through the stealth integration of air-conditioning equipment (the building's first), a summer season was born.

THIERIOT RESIDENCE HALL

The heart of St. Mark's School, a co-educational boarding school outside of Boston, is the Tudor-style main campus building of 1890. A chapel, cloisters, and a series of outdoor courtyards round out the core campus. ABA is designing a new residence facility — Thieriot Hall — that will nestle into this historic cluster. (A rendering of the interior, common-hall area is above.) Thieriot Hall's linear layout with perpendicular wings will reinforce the campus tradition of garden courtyards; Craftsman detailing and the exterior materials of brick, wood shingle, and slate will yield a level of craft compatible with the older buildings.

Brown University's Haffenreffer Museum of Anthropology is one of New England's leading centers for research on Native American material culture. Ann Beha Associates prepared a master plan that assessed the museum's existing collections and programs, evaluated a proposed new site in downtown Providence, R.I., and explored design alternatives and costs for moving the museum to the new site. This plan led to the purchase of the site and the selection of the firm as architects for the project — the first new Ivy League museum in decades.

After planning for a chapel restoration and expansion on the campus of St. Mark's School, a prep school in Southbourgh, Mass., Ann Beha Associates is now designing a new 33,000-sq.ft. residence hall. Thieriot Hall will provide four faculty apartments, rooms for 45 students, common living and study spaces, and a suite of administrative offices all within a brick-and-shingle building of a comfortable, homey scale. For this project the architects did extensive research on the experiences of other prep schools and the constantly shifting nuances of student lifestyles.

Moving Toward Modern

In addition to designing more new buildings, Ann Beha Associates is securing more commissions for projects that involve renovation and expansion of Modern movement architecture. At Restoration '98 this past March, Beha delivered a plenary address titled "Modernism and Renovation." Her remarks were refreshingly bold and judicious, starting with "Modernism is fascinating and

The Portland Art Museum, a simple but elegantly detailed two-story structure built in 1931, is a protected landmark. As such, ABA's exterior and mechanical upgrades had to be as close to invisible as possible — and they are. A slope was added to the roof, new copper gutters and flashing were installed, and two substantial HVAC units were placed on the roof with hardly a hint from the street. *(Photo: Hewitt-Garrison)*

ABA designed a 15-ft.-high painted stainless-steel and glass partition wall to isolate the Portland Art Museum's gallery space from the entry foyer and outdoor air. Mullions were designed to replicate those found on Belluschi's original entry doors, and the wall was fabricated by Hopes Architectural Products of Jamestown, N.Y., the same company that made the entry doors in 1931. *(Photo: Hewitt-Garrison)*

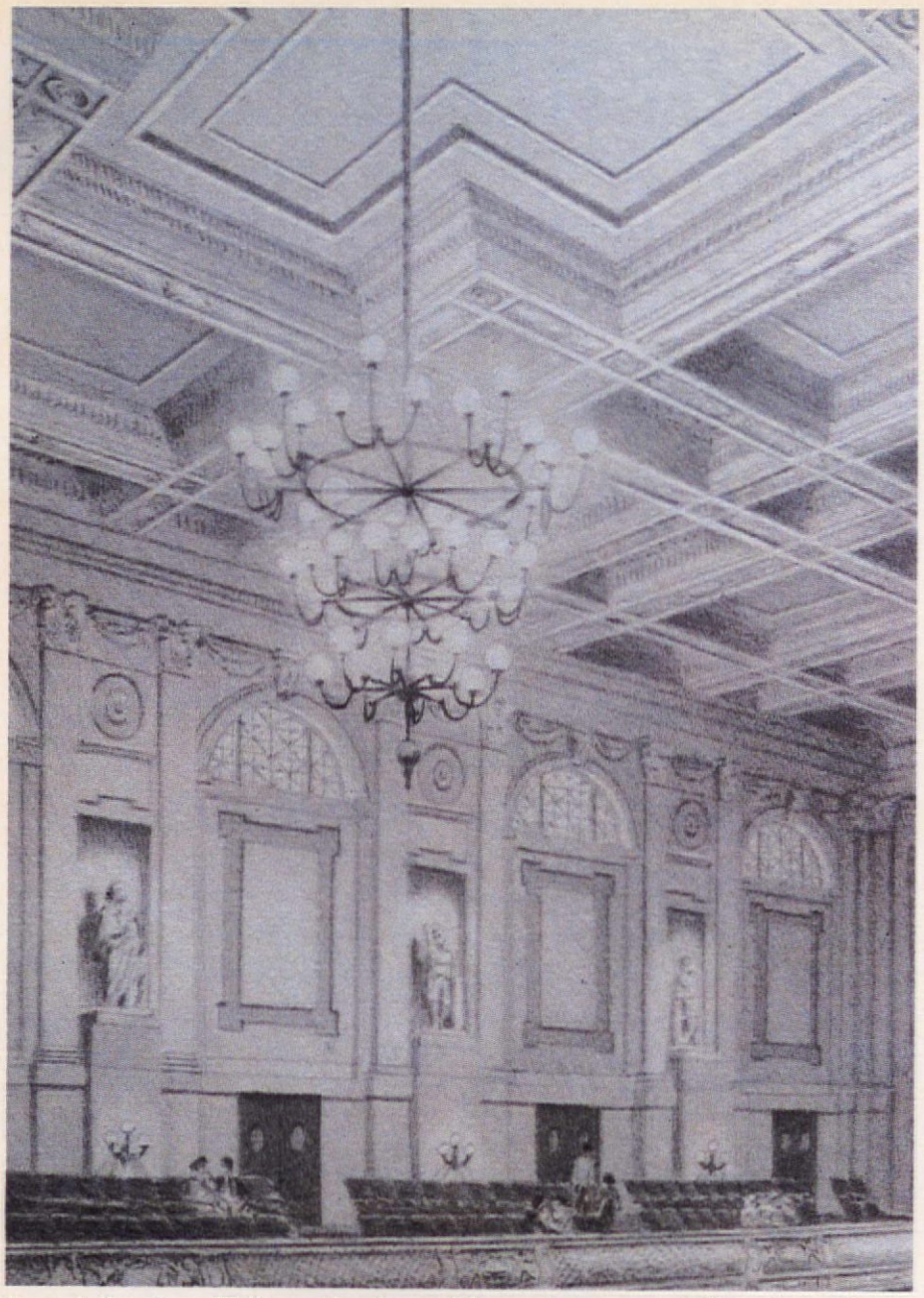
frustrating." Because we have a hard time making judgments about our immediate past, says Beha, "We will inevitably make some mistakes about what gets preserved, altered, or destroyed. What is powerful is that in regulatory and academic environments there is far more open dialog on this topic than there has been at other moments of alteration and destruction."

Beha says that they are always looking at the edge of culture and the architectural expressions associated with that edge. She expresses no fear of the edge, either. "I have no problem looking at Modernism or Post-Modernism. But I want to look at these buildings and the movements that created them in a deeper way. There are more profound messages and references in these structures than are immediately apparent." While Beha says she never wants to look at a building as a fixed piece with no alternative, she grants there are distinctions within the huge mass we call "Modern." Some buildings were extraordinary in their time and continue to be so. Call them icons, they merit a place in our protected collection. Even for the less-than-icons, Beha advocates to "go at the spirit of the work," and not dwell on feet and inches debates. Foremost, she says, "Our job is to make sure we don't change things for arbitrary reasons."

ABA directed the $8.2-million renovation of Jordan Hall, the New England Conservatory of Music's 1,000-seat concert hall. The project, completed in 1995, included improved mechanical systems, ADA upgrades, an overall refurbishing of seating and interior finishes, and a complete lighting overhaul. The 1903 hall, much celebrated for its acoustics, had grown dark and dirty. ABA started by repainting and refinishing the interior surfaces, including the gold-colored aluminum leaf of the proscenium arch, and bringing back the laylights in the center of the coffered ceiling. Beha and lighting designer Charles Cosler chose a white and amber glass for the lights, which are now illuminated during the day by a reopened skylight and at night by a wide flood lamp suspended above. *(Photo: Nick Wheeler)*

Designing for the Arts

While the firm's work with these buildings includes preserving them, more often than not it means designing new buildings and alterations that are complementary. For the Sterling & Francine Clark Institute of Art in Williamstown, Mass., it provided all three. The Institute's buildings were constructed in 1955 and 1973 to house a collection of 19th-century decorative arts and an art history research library. Ann Beha Associates' expansion and renovation included a new building of over 6,000 sq.ft. providing a special exhibition gallery, library facitlities and multi-purpose meeting space; underground library storage utilizing a compact stacks system; and a two-story addition to the 1973 building. Next on the docket at the Clark is a new conservation center and visiting-scholars residence. In Kalamazoo, Mich., construction is wrapping up on Ann Beha Associates' addition and renovation of the Kalamazoo Institute of Arts. The architects have preserved the design intent of the Institute's 1959 glass-and-steel pavilion while adding a new entrance and a 24,000-



Boston's Symphony Hall, considered one of the top three concert halls in the world, celebrates its centennial in 2000. In 1997 ABA was retained to develop a phased program of improvements for this McKim Mead and White masterpiece. The work, on target for a debut in 2000, will cover everything from restrooms to paint schemes. *(Rendering: F.M. Costantino, Inc.)*

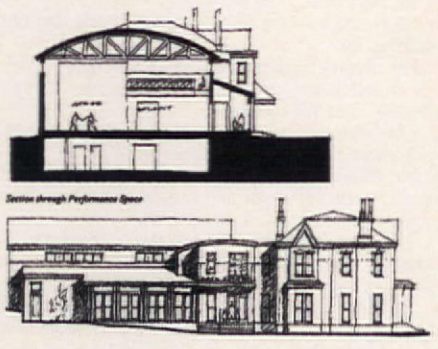
sq.ft. wing complete with all the trappings of a state-of-the-art cultural center. In Portland, Ore., a new director and an active board are undertaking a major expansion of the Portland Art Museum to reinvigorate its place in the city's cultural life and accommodate special exhibitions. Ann Beha Associates' ongoing work has played a key design role in the fundamental changes taking place within this institution.

The Portland Museum is a complex of four buildings and a sculpture mall on a full-block site. Three of the buildings were designed by the well-regarded Modern-movement architect Pietro Belluschi. (Born in 1899 and practicing until his death in 1994, Belluschi can literally be called an architect of the 20th century.) The initial project involved renovations to the original 1931 museum and its 1938 addition, both two-story buildings of brick and travertine — Belluschi's signature material — and the adjacent Masonic Temple structure, built in 1926. All three buildings are landmarks. The challenges were twofold: make sure new uses can cohabitate with the essential qualities of the landmarked buildings, and ensure that the building's significant features do not get lost in a sea of renovation. With this in mind, the project team set out to address the biggest problems: controlling light, temperature, and moisture in Belluschi's museum. Sensitively designed and strategically placed new glass-partition walls isolate galleries to allow independent climate control. New frames and glazing for the windows, including huge monitor-style skylights running the length of the gallery, reduced solar gain and artwork-unfriendly ultraviolet light, as did the walling over from inside of selected gallery windows.

The fine-tuning of simple but key design elements is registering with visitors who are expressing appreciation of these features for the first time in years. Phase Two of the $18-million project tackles converting an adjacent 45,000-sq.ft. art school designed by Belluschi in 1968 into gallery space and the design of a new 3,300-sq.ft. auditorium below a new sculpture garden.

ABA is currently involved in a five-year restoration of Ca' d'Zan, the centerpiece of the Ringling Museum complex in Sarasota, Fla. Built in 1926 as a fanciful and opulent house evoking the palazzos of Venice, the building's materials — stucco, terra cotta and Spanish tiles — had deteriorated severely in the humid, salty air of Florida's Gulf Coast. The first phase of the $5-million restoration, completed in 1997, included restoration of the exterior terra cotta and creation of new visitors facilities. Phase Two, currently underway, addresses interior finishes, life-safety upgrades, climate control, and restoration of the terrace and boat dock.

Working with Building Conservation Associates and Boston Valley Terra Cotta, ABA replaced a substantial amount of the terra cotta at Ca' d'Zan. Here, new replacement pieces await glazing and installation. *(Photo: Building Conservation Associates)*



The Cedar Street Arts Center in Corning, N.Y., provides classes in art, music, dance, and drama to more than 1,300 children and adults in the community. The Center had outgrown its current facility, a Victorian house in a residential neighborhood, and needed more professional and accessible performance spaces for its programs. ABA demonstrated how the Center could be expanded through the reuse of a partially burned landmark house on an adjacent site. The firm's design for the 14,000-sq.ft. addition will accommodate a gallery, administrative offices, art studios, and a 200-seat performance hall that doubles as two dance studios.

A cluster of prominent landmark buildings in Providence, R.I., will usher in the new century as the Haffenreffer Museum of Anthropology, part of Brown University. Since 1995, ABA has been working on the master plan, site selection, and new design for the 40,000-sq.ft. $15-million project. Two historic buildings, Old Stone Bank (1854) and the Benoni Cooke House (1828), will serve as the museum and public education center, respectively; ABA is designing a new wing for collections storage and special exhibitions. The challenge here was balancing preservation objectives with the new construction and renovations necessary for contemporary museum and educational use. *(Photo: David Bohl)*

Clear Thinking

Asked what she has learned from working with buildings of the recent past, Beha speaks of methodologies and satisfactions. There is a different kind of satisfaction with Modern movement buildings, she says. "The public perception and appreciation of your work is different. With a 19th-century restoration people marvel at the robust display of craft and the fact that such a building will likely never be built again. With 20th-century buildings there is public acknowledgment, but less often public awe." Methodologies, however, run true from one era to another. "If you are interested in understanding issues, precedent and design intent of 19th- or early-20th-century buildings, you should be looking at the same issues for mid-century buildings and your own new work."

Asked what guides her work, Beha offers a thoughtful, indirect answer. She believes that most people doing architecture have a great deal of difficulty standing back and verbalizing what makes them do what they do. Creative influences are so deeply imbedded in one's personality and background that they cannot always be distinguished. "It's who you are," she says, and who you are shows up all the time. Yet Beha is clear on certain principles. Her firm's work must be technically well-resolved, timeless in style, fundamentally maintainable, environmentally responsible, and beautiful . . . "arrestingly beautiful." What Beha cares about most, however, is making sure the architecture contributes significantly toward bringing about the desired change in an institution. "That's what architecture is supposed to do," she says. That's Beha wisdom at work. ■

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560. Snow Guards — Beautiful and practical, cast-bronze eagle snow guards prevent avalanches of snow and ice from sliding off slate roofs. Other copper roofing specialties. Free brochure. **M.J. Mullane Co.**

8300. Metal Roof Restoration — Nationwide roofing contractor offers extensive experience in sheet metal fabrication and restoration. Free brochure. **NIKO Contracting**

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Abatron, Inc.	www.abatron.com
Adams Stair Works & Carpentry	www.adamsstair.com
Aged Woods, Inc.	www.agedwoods.com
AGW Systems	www.agwaccess.inter.net
Ahrens Chimney Technique	www.ahrenschimney.com
Allegheny Rest.	www.mountain.net/hp/allegheny-restoration/
Allen-Robbins Arch. Metals	www.skyconsulting.com/armetals
Allied Window, Inc.	www.invisiblestorms.com
Alloy Casting Co.	www.alloynet.com
America Heart Pine, Inc.	www.americaheartpine.com
Ancor Granite Tile	www.ancor.ca
Apple Restoration	members.aol.com/arwny/index.htm
Architectural Grille	www.archgrille.com
Architectural Products by Outwater	www.outwater.com
Architectural Resource Center	www.aresource.com
Arsco Mfg. Co.	www.arscomfg.com
Artcrete, Inc.	www.artcrete.com
Ball & Ball Hardware	www.ballandball-us.com
Ball Consulting	www.ball-consulting-ltd.com
Bamboo Fencer	www.bamboofencer.com
Barlow Tyrie, Inc.	www.teak.com
Baths from the Past/Besco	www.faucetfactory.com
Beckwith Designs	www.beckforge.com
Bellagio	www.bellagioatlanta.com
Berridge	www.dcd.com/specspot/berridge/product1.html
Bird-X, Inc.	www.bird-x.com
Bouvet, Inc.	www.bouvet.com
Bradbury & Bradbury Art Wallpapers	www.bradbury.com
Brandon Industries, Inc.	www.brandonmail.com
Brandt, Sylvan	www.full-motion-net.com/sylvanbrandt/
Bufftech	www.bufftech.com
Cantera Especial	www.silicon.net/~zla
Carlisle Restoration Lumber	www.wideplankflooring.com
Carolina Solar Structures	www.nationsnet.com/carolinasolar
Cast Designs & Supply, LLC	www.castdesignsupply.com
Cathedral Stone Products	www.jahnmortars.com
CemcoLift/LGIS America, Inc.	www.cemcolift.com
Chadsworth's 1.800.Columns	www.columns.com
Charleston Lighting & Mfg.	www.charlestonlighting.com
Chelsea Decorative Metal Co.	www.thetinman.com
Chesapeake Hardwood Products	www.chpi.com
Chimney Pot Shoppe (MBE)	www.wpic.com/bentley/
Circle Redmont, Inc.	www.circleredmont.com
Color People	www.colorpeople.com
Conrad Schmitt Studios	www.conradschmitt.com
Continental Bridge	www.continentalbridge.com
Continental Cast Stone	www.continentalcaststone.com
Coppa Woodworking	www.coppawoodworking.com
Copper House	www.northwindnh.com/copper
CopperCraft, Inc.	www.coppercraft.com
Copperworks of Don Miller	members.aol.com/gutterarts
Craftsman Lumber Co.	www.craftsmanlumber.com
Crosswinds Gallery	www.crosswinds-gallery.com
Cumberland Woodcraft Co.	www.pa.net/cwc
Custom Cascades	www.natlnet.com/waterfalls.htm
Custom Home Accessories	www.custom-mailboxes.com
Cutler Mfg.	www.sweets.com/postal
DeAngelis Iron Work	www.deangelisiron.com
DEC Associates	www.decassociates.com
Designer Doors, Inc.	www.designerdoors.com
Designs in Tile	www.designsintile.com
DHS Designs	www.dhsdesigns.com
Dixie Cut Stone & Marble	www.dixiestone.com
Dodge-Regupol, Inc.	www.regupol.com
Doty & Sons Concrete Prod.	www.dotyconcrete.com
Duluth Timber Co.	www.duluthtimber.com
DuMor, Inc.	www.dumor.com
Durastone	www.durastone.com
Easy Leaf Products	www.easyleaf.com
Echeguren Slate, Inc.	www.echeguren.com
EGI Exhibitions	www.egiexhib.com
Environmental Features	www.wwnet.com/~efi
Everwood Teak	www.everwoodteak.com
Faubourg Lighting	www2.netdoor.com/~faubourg
Fishman Mosaics	www.netrox.net/~mosaics
Florentine Craftsmen	www.florentinecraftsmen.com
Foam Tech./Symmetry Prod.	www.foamtech.com
Foam Works, Inc.	www.foamworks.com
Four Seasons Sunrooms	www.four-seasons-sunrooms.com
Frank Miller Lumber Co.	www.frankmiller.com
Fund Raisers, Ltd.	www.fundraisersltd.com
Fypon, Ltd.	www.fypon.com
Gaby's Shoppe	www.gaby.com
GenLime Group, L.P.	www.genlime.com
Gerald Siciliano	www.concentric.net/~gsstudio
Gerber Hinge Co.	www.gerber-hinge.com
Gilders' Studio, Inc.	www.gilders.com
Gladding McBean	www.paccoast.com
Golden Lion, Inc.	www.goldenlion-hardware.com
Goodwin Heart Pine Co.	www.heartpine.com
Goodwin International	www.goodwininternational.com
Grandview Aluminum Prod.	www.gapalum.com
Great Gatsby's	www.gatsbys.com
Green Mountain Gate	www.entrancegates.com
Grill Works, Inc.	www.grillworksinc.com
Haddonstone (USA), Ltd.	www.haddonstone.com
HAPCO, Inc.	www.hapcopoles.com
Harrington & King Perforating	www.hkperf.com
Harvey Millwork, Inc.	www.harveymillwork.com
Hearthstone, Inc.	www.hearthstonehomes.com
Heather & Little, Ltd.	www.heatherandlittle.com
Hennessy House Flag Poles	www.woodenflagpoles.com
Herwig Lighting	www.herwig.com
Historical Arts & Casting, Inc.	www.historicalarts.com
Illahe Tileworks	www.illahetile.com
Increte Systems, Inc.	www.increte.com
Indital, USA	www.indital.com
Information Refinery	www.inforefinery.com
Invisible Structures	www.invisiblestructures.com
Island Post Cap	www.islandpostcap.com
J. Dub's	www.jdubs.com
Jancik Arts International	www.jancikarts.com
Jefferson Mack Metal, Inc.	www.mackmetal.com
Johnson Atelier	www.atelier.org
Johnson, H&R	www.johnson-tiles.com
Joseph Franklin Interior Acces.	www.josephfranklin.com
Kaltech Industries Group, Inc.	www.kaltech.com
Kestrel Mfg.	www.diyshutters.com
King Luminaire Co.	www.kingluminaire.com
King Supply Co.	www.kingsupplyco.com
Kolson, Inc.	www.kolson.com
Kroy Building Products	www.kroybp.com
Landmark Studios	www.landmarkstudios.com
Langland, Tuck	www.oit.iusb.edu/~hlangland
Larsen Products Corp.	www.larsenproducts.com
LeQuire, Alan	www.mindspring.com/~lequire/
Liberty Brass Turning Co.	www.libertybrass.com
Lighting by Hammerworks	www.hammerworks.com
Limestone Concept, Inc.	www.limestoneconcept.com
Little Giant Mfg. Co.	www.little-giant.com
Long Island Fountain Supply Co.	www.lifountain.com
Lynch & Sons, Inc.	www.klynchandsons.com
MacDonald & Assoc.	www.brmacdonaldassoc.com
MacQueen Sculpture	www.macqueenfine art.com
Mel Northey Co.	www.melnorthey.com
Melton Classics, Inc.	www.meltonclassics.com
Michael Fannin, Stonewright	www.vermontel.com/~fannin
Mintec Corp.	www.bamtex.com
Modern Art Foundry	www.modernartfoundry.com
Monarch Products Co.	www.quickpage.com/monarchrad
Monumental Iron Works	www.mhfence.com
Morrow Company	www.frankmorrow.com
Murdock, Inc.	www.murdockfountains.com
Nanz Custom Hardware, Inc.	www.nanz.com
New Blue Moon Studio	www.bluemooniron.com
New West Furniture	www.newwest.com
Newport Fastener Co.	www.newportfastener.com
Nixalite of America, Inc.	www.nixalite.com
NOMMA	www.nomma.org/nomma/
Old World Stoneworks	www.oldworldstoneworks.com
Olde Good Things	www.oldegoodthings.com
Pacassa Studios	www.pacassa.qpg.com
Pacific Post & Beam	www.pacificpostbeam.com
PAVE TECH, Inc.	www.pavetech.com
Pennington Hardwoods	www.pennwood.com
Period Lighting Fixtures Inc.	www.periodlighting.com
Perma-Flex Mold Co., Inc.	www.perma-flex.com
Pioneer Millworks	www.newenergyworks.com
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Polymeric Systems	www.polymerics.com
Polytek Development Corp.	www.polytek.com
Porphyry USA, Inc.	www.porphyryusa.com
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Profit Resources	www.donorbricks.com
Reggio Register Co.	www.reggioregister.com/~reggio/
Rejuvenation Lamp & Fixture Co.	www.rejuvenation.com
Renaissance Conservatories	www.sunroomco.com
Rhodes Studio	www.buddyrhodes.com
Riverwood Heart Pine Co.	www.riverwoodheartpine.com
RK Manufacturing, Inc.	www.rkmfg.com
Robinson Consumer Products	www.pots.com
Robinson Iron Corp.	www.robinson-iron.com
Romancing The Woods	www.rtw-inc.com
Roy Electric Co.	www.westfieldnj.com/roy
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Safari Thatch & Bamboo	www.safarithatch.com
Sculpture Works, Inc.	www.sculptorjohnston.com
Seibert & Rice, Inc.	www.seibert-rice.com
Sentry Electric Corporation	www.sentrylighting.com
Sepp Leaf Products, Inc.	www.seppleaf.com
Sierra Architectural Cast Stone	www.sierrastone.com
Simon's Hardware and Bath	www.simons-hardware.com
Smith & Hawken	www.smith-hawken.com
Smith-Cornell Impressions	www.smith-cornell.com
Smooth-On, Inc.	www.smooth-on.com
Specification Chemicals, Inc.	www.spec-chem.com
Stained Glass Overlay, Inc.	www.sgoinc.com
Staircrafters Plus LLC	www.staircrafters-plus.com
Steptoe & Wife Antiques, Ltd.	www.steptoewife.com
Stewart Ironworks Co.	www.stewartironworks.com
Stone Forest	www.stoneforest.com
Stone Legends	www.stonelegends.com
Stone Manor Lighting	www.stonemanorlighting.com
Style-Mark, Inc.	www.style-mark.com
Sur-Fin Chemical Corp.	www.instantweb.com/s/surfin
Sweepster, Inc.	www.sweepster.com
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Timberlane Woodcrafters	www.timberlane-wood.com
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Vermont Hardwoods	www.vermont-hardwoods.com
Vintage Lumber Co.	www.vintagelumber.com
Vintage Wood Works	www.vintagewoodworks.com
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Wainlands Mark II	www.wainlands.com
Wausau Tile, Inc.	www.wausautile.com
Whitacre-Greer	www.wgpaver.com
White River Hardwoods	www.mouldings.com
Wilbur, Frederick - Woodcarver	www.esinet.net/ac.html
Wine Racks Unlimited	www.wineracks-unlimited.com
Wood, Steel & Glas, Inc.	www.whitecedar.com
Wood-Mizer	www.woodmizer.com
Woodstone Co.	www.woodstone.com
Worthington Group	www.architectural-details.com
Yankee Steeplejack Co.	www.yankeesteeplejack.com

sliding, or lift-out styles. Free brochure. **Allied Windows**

1670. Builders Hardware — Door, window, cabinet, and millwork hardware. Cast window pulleys in bronze, brass, or aluminum. **Architectural Resource Center**

2930. Authentic Restoration Hardware — Largest selection of authentic 18th- and 19th-century hardware: hinges, latches, pulls, shutter hardware, and much more. Also, custom work and repairs. Free mini-catalog. **Ball & Ball**

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2260. Period Hardware — Plumbing, cabinet & furniture mounts, lighting, etc. All metals and all periods. Free brochure. **Butler Hardware Co.**

379. Skylights & Glass Enclosures — Specialty glass products include window walls and skylights. Glass bullet and cast iron panel system, glass block, and glass pavers, also. **Circle Redmont, Inc.**

9600. Wood Screen Doors — Available in many styles and any size. Choices of woods includes pine, Douglas fir, oak, and mahogany, stained or painted. Free brochure. **Coppa Woodworking**

6980. Arts & Crafts Style Hardware — Hand-hammered hardware; copper, bronze, and brass sash lifts; door knobs, handles, and more. Free brochure. **Craftsman Hardware Co.**

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109. Overhead Garage Doors — Carriage- and vintage-style garage doors with overhead door operators. Also, matching entry doors. **Designer Doors, Inc.**

Replacement Sash — Any size or layout: circle, oval, round-top, Gothic. Sash or complete window unit. Custom moldings, doors, and millwork to specs. Call: 717-788-1145. **Drums Sash & Door**

2540. Hardware — Locks, hinges, escutcheons, pulls, pendants, and even decorative nails. Free brochure. **Gerber Hinge Co.**

115. Imported Hardware — Iron, brass, and bronze hardware; many rustic styles. **Golden Lion, Inc.**

1910. Custom & Historic Reproduction Windows — Styles include Prairie and leaded glass windows. Commercial and residential work. **Grabill Fine Wood Windows and Doors**

286. Hardware & Consulting — Distributors of door and window hardware with professional hardware consultants and specification writers on staff; also, commercial washroom specialties. **H.T. Sales**

6640. Traditional Garage Doors — Specialists in custom wood garage doors. Free brochure. **Hahn's Woodworking, Inc.**

3570. Custom Doors & Entryways — Circular moldings for interior or exterior applications. Also, historic restoration work. Free brochure. **Hendricks Woodworking**

1350. Wood Doors — Interior and exterior doors in Honduran mahogany and red oak. **Heritage Door**

Custom Forged Hardware — Full-service blacksmithing shop custom-produces hardware, fireplace tools, etc. Repair and restoration specialists. For catalog or details, call (704) 667-8868. **Kayne & Son**

269. Decorative Hardware — Distributors of a vast selection of hardware including door, window, transom, and cabinet hardware. **Kraft Hardware**

7600. Door & Window Hardware — Exclusive importer of a wide range of traditional house hardware; over 21,000 items available. Free brochure. **Maguire Iron**

9210. Custom Windows & Doors — Architectural millwork shop specializes in custom windows and doors for restoration and new construction. **Michael Reilly Design**

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1150. High-End Period Hardware — Manufacturers and suppliers of door hardware from 19th-c. European to Moderne and Deco styles. Free brochure. **Nanz Custom Hardware**

5110. Pintles, Hinges & Shutter Holdbacks — Forged hardware with forge or painted finishes. **Old Smithy Shop**

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Sash Pulleys — Solid-brass and -steel, plain and ball-bearing sash pulleys; sash chain; and traditional brass window hardware. Call 802-257-4314. **Phelps Co./Architectural Specialties**

420. Decorative & Architectural Hardware — Door hardware, mail slots, and all types and periods of decorative hardware. Also has kitchen and bath hardware departments. **Simon's Hardware and Bath**

538. Metal Door Hardware — Wrought-iron door hardware in styles from colonial to 20th century. **Southwest Forge & Door**

9640. Wood Doors & Windows — Full range of millwork services from authentic restoration to custom design & production. Skilled at recreating historic windows and doors. Free flyer. **Wood Window Workshop**

544. Wood Screen Doors — Honduras mahogany screen doors made with mortise-&-tenon joinery. Styles include Victorian and rustic. **Wooden Screen Door Co.**

8430. Specialty Wood Windows — Palladians, straight, and fan transoms. Single-, double-, or triple-glazed, thin muntins. Also, solid-wood doors with insulating core. Free brochure. **Woodstone Co.**

1631. Carved Doors & Entries — Elegant classical carved doors and entries from one of the leading suppliers of architectural elements. Free brochure. **Worthington Group**

DIVISION 9 FINISHES

8920. Tin Ceilings — 26 Victorian and Art Deco tin-ceiling patterns. 2x8-, 2x4-, and 2x2-ft. panels for nail-up or lay-in. 13 cornices; pre-cut miters. 2x2-ft. center medallions. Free literature. **A.A. Abbingdon**

1320. Antique Wood Flooring — Premium quality flooring from recycled first-growth woods including chestnut, oak, heart pine, poplar, and more. Free brochure. **Aged Woods, Inc.**

4060. Antique Heart Pine — Flooring and large structural timbers; woods include heart pine, antique cypress, and Douglas fir. Free brochure. **America Heart Pine, Inc.**

99. Stone Flooring — Marble and semi-precious stone medallions, borders, and floor patterns; many based on ancient European designs. Also, table top designs. **Ancient Venetian Floor Co.**

3390. Antique Wood Flooring — Hardwood flooring in antique oak, chestnut, and heart pine. Free brochure. **Antique & Specialty Flooring**

8710. Architectural Sculpture Studio — Specialists in ornament in cast stone, plaster, and other materials for interior and exterior restoration work. **Artistic Architecture Corp.**

Victorian Roomset Wallpaper — Vast array of borders, fills, and patterns. Catalog shows 10 roomsets including Neo-Grec, Arts & Crafts, Morris, Aesthetic Movement. Catalog $10; call (707) 746-1900. **Bradbury & Bradbury**

5580. Custom Wood Flooring — Paneling and flooring in species including white pine, red oak, heart pine, Southern yellow pine, and cherry. Free brochure. **Carlisle Restoration Lumber**

451. Reinforced Plaster Elements — Moldings, medallions, niches, mantels, niches, and domes in reinforced plaster; also, custom restorations. **Cast Designs & Supply**

549. Stone Flooring — Supplier of antique stone and mosaic flooring; domestic stone and tile flooring; limestone and slate floors. **Charles Tiles, Inc.**

190. Tin Ceilings — 18 patterns of tin ceilings for Victorian homes and commercial interiors. Designs from Victorian to Art Deco. Several exclusive patterns; cornices in 4-ft. lengths. Free brochure. **Chelsea Decorative Metal Co.**

8780. Antique Wood Flooring — Original antique and remilled flooring from antique recycled lumber, in chestnut, oak, white pine, yellow pine, and sugar pine. **Chestnut Specialists**

412. Antique Flooring Source — Wide boards in woods including chestnut, oak, pine, and hemlock; flooring, paneling, and more. **Chestnut Woodworking**

8040. Decorative Commercial Interiors — Restoration and custom work for theaters, religious buildings, etc. Painting, plasterwork, glass work. Free brochure. **Conrad Schmitt Studios**

322. Flooring — Plank, parquet, inlaid, and antique flooring; also, prefinished cork flooring. **Cordts Flooring Co.**

7480. Wide Board Antique Flooring — Flooring, barnwood, and beams. Also, furniture made from 19th-century barnwood. Free brochure. **Country Road Associates, Ltd.**

4320. Extra-Wide Boards — Pine boards for flooring or paneling in widths from 12 to 24 in., kiln dried. Wide oak flooring from 4 to 9 in. Custom moldings & millwork; dual wainscoting. Free brochure. **Craftsman Lumber**

2320. Terrazzo — And seamless composition flooring installations throughout New England. Free brochure. **DePaoli Mosaic Co.**

691. Stone Flooring — Pavers, retaining walls, edging, and ornamental stonework in basalt. Free brochure. **Decorative Cast Basalt**

250. Historic Tiles — For fireplaces, kitchens, or bath: coordinated borders and patterns in any size. Victorian, Neoclassic, De Morgan, Art Nouveau, Arts & Crafts, and more. Period pavers. Colorful catalog. **Designs In Tile**

3420. Cork Flooring — Three shades of natural-cork floor tiles are suitable for commercial or residential use and enhance the natural Arts & Crafts interior. **Dodge-Regupol, Inc.**

1980. Gold Leaf Products — Genuine and imitation gold-leaf materials for interior and exterior uses. Free brochure. **Easy Leaf Products**

776. Waterjet-cut Metal — Complex designs cut or etched using water cutting, including grilles, signage, and decorative inlays. **Farrodyne USA, Inc.**

1960. Plaster Ornament — Hundreds of ornaments in fiber-reinforced plaster from Turn-of-the-Century molds. Also, custom duplication of ornament from your sample. Free flyer. **Fischer & Jirouch Co.**

4900. Flexible Molding — Also, rigid moldings, spot decorations, and simulated wood carvings for furniture, etc. Custom reproductions in polymers & polyesters available. Free brochure. **Flex Moulding, Inc.**

8980. Gilded Domes — Exterior and interior gilding and copper-patination projects nationally and overseas. Also, steeplejack services. Free brochure. **Gilders' Studio, Inc.**

5040. Large Wood Floor Grates — Wood registers, grilles, and grates; unfinished or prefinished. Free brochure. **Grate Vents**

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9140. Parquet Floors — Classic hardwood parquet borders and full-room patterns are exact reproductions of floors found in homes built from 1880 to 1920. Free brochure. **Historic Floors of Oshkosh**

445. Relief & Hand Painted Tile — Handmade tile in Victorian, Arts & Crafts, and contemporary styles. **Illahe Tileworks**

275. Decorative Stonework — Flooring, tabletops, tiles, and accents in waterjet-cut polished stone. **Intarsia Co.**

9510. Interior Finish Work — Faux finishing, decorative plasterwork, decorative painting, and all aspects of historic interior work, as well as custom contemporary work. Free brochure. **Intl. Fine Art Conservation Studio**

5680. Victorian Tile — Authentic Victorian tile for fireplace surrounds and hearths, in both encaustic and lithographed patterns. Free brochure. **H & R Johnson**

751. Prefinished Hardwood — Flooring in 7/8-, 1/2-, and 3/4-in. thicknesses. Free brochure. **Junckers Hardwood, Inc.**

4910. Historic Pigments — Recreate the exact look of historic finishes through the use of authentic earth pigments and colors. **Kremer Pigments**

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226. Bonding Agents — Surface-applied bonding agents for exterior and interior uses; acrylic admixture to modify portland cement, mortar, and plaster. **Larsen Products Corp.**

272. Antique Heart Pine — Flooring and custom milling in heart pine; wide-plank and random-width boards. **Longleaf Lumber**

703. Exterior Elements — Cornices, balustrades, columns, capitals, brackets, and more in polymers and cast stone. **Manor Style, Inc.**

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4210. Flooring & Millwork — Wholesale products, including stairs, molding, laser-cut flooring, and mantels. Free brochure. **National Hardwood Flooring & Molding**

570. Tile & Ceramics — Custom tile & glazes. Also Batchelder and Malibu tile reproductions. 10 years experience. Free brochure. **Native Tile and Ceramics**

6100. Ceramic Tile — Hand-painted and custom relief tile, friezes, and murals; reproductions and glaze matching. Also, terra-cotta tile. Free literature. **Nocera Art Tiles**

3260. Antique Wood Paneling & Flooring — Antique pine and Southern yellow pine in widths up to 24 in. Also, oak and chestnut up to 20 in. Beams, doors, and other salvaged materials. Free brochure. **North Fields Restorations**

738. Etched Stone — Indoor and outdoor etched stone; plaques, signage, paving, and more. Free brochure. **O'Sullivan Custom Etched Stone & Glass**

3150. Copper Coatings & Patinas — Four finish colors, including verdigris green, can be applied to copper or any metal, and to any interior or exterior material. Free brochure. **Patina Finishes & Copper Coats**

435. Moldmaking Materials — RTV silicones, polyurethanes, epoxies, fiberglass, and other moldmaking materials. **Plastic Tooling Supply Co.**

723. Wood Flooring — Hardwood and reclaimed pine flooring; wide board, random width, and strip flooring. **Plaza Hardwood, Inc.**

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5810. Brass & Iron Registers — Beautiful solid-brass and cast-iron registers are based on 19th- & early-20th-century originals. Free catalog. **Reggio Register Co.**

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1660. Wood Flooring & Paneling — Hardwood flooring, paneling, and ceilings in a variety of species, such as cherry, ash, white oak, maple, walnut, and poplar. Free brochure. **Sheoga Hardwood Flooring & Paneling**

650. Architectural Molding Materials — Molding compounds can be used on-site, and are readily pourable or brushable for painting onto vertical surfaces. Free brochure. **Smooth-On**

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5600. Wide-Plank Flooring — Mills new and antique. Also, stair parts, molding, and associated specialty millwork products. Free brochure. **The Woods Co.**

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520. Sheetmetal Ceilings & Ornament — Richly ornamented metal ceilings, from original Turn-of-the-Century dies. Also, exterior cornices and hundreds of sheetmetal ornaments. Free catalog. **W.F. Norman**

1633. Polyurethane Moldings — Cornice moldings, niches, and ceiling medallions in traditional styles are crafted in strong, lightweight high-density polyurethane. **Worthington Group**

DIV.ISION 10 SPECIALTIES

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3230. Bird and Pest Repellants — Non-toxic chemical roost inhibitors, visual and sound pest inhibitors, barriers, and more. **Bird-X Inc.**

7130. New & Old Bells — Cast bronze bells are bought and sold by the country's largest dealer of pre-owned bells for churches, towers, etc. Free brochure. **Brosamer's Bells**

1360. Copper Mailboxes — Timeless designs can be wall mounted; two types of poles available with torch-cut numbers. Free brochure. **Chaenomeles, Inc.**

107. Weathervanes, Cupolas, & Finials — Extensive catalog with a large selection of weathervanes and roof ornament; custom design and crafting available. **Crosswinds Gallery**

527. Exterior Accessories — Source of custom accessories such as mailboxes; weathervanes in copper or aluminum; address plaques in aluminum, bronze, or porcelain. Free literature. **Custom Home Accessories**

85. Letter and Parcel Mailboxes — Pedestal, surface, and drop mailboxes for letters and parcels. Commercial lobby installations a specialty. Free brochure. **Cutler Mfg.**

9100. Carved Stone — Skilled carvers and sculptors create statuary, ornament, mantels, entrances, and architectural moldings. Reproductions in marble, limestone, or bronze. Free brochure. **DMS Studios**

279. Carved Limestone — Fireplaces, balusters, columns, and more in limestone (Indiana buff, Texas cream, and Mankato gold). Free brochure. **Dixie Cut Stone & Marble, Inc.**

4290. Flagpoles, Weathervanes & Cupolas — More than 50 stock weathervanes, with custom designs available. Free brochure. **Eder Flagpole Company**

5690. Carved-Wood Furniture & Mantels — Handcrafted custom and stock mantels in hardwoods and custom-cast stone. Furniture, including mirrors, tables, chairs, and architectural elements. **Edmon's Unique Furniture & Stone Gallery**

1180. Wooden Flagpoles — Handmade wooden flagpoles with classic square-to-octagon-to-tapered round design. Select Douglas Fir, turned on custom lathe with a white gloss finish. Free brochure. **Hennessy House Wooden Poles**

586. Traditional Mailboxes — Also, signs, lightposts, and other exterior elements. Free brochure. **Imperial Mailbox Systems**

729. Western Style — Furniture, kitchen cabinets, doors, and cabinetry in thick-plank cedar and knotty pine. Free brochure. **Jesse James Woodwork**

489. Signage — Custom signs in metals, woods, and plastics; cut-out letters, silkscreening, cast logos, and ADA-signage. **Kaltech Industries Group, Inc.**

9160. Historical Markers & Custom Casting — Foundry casts plaques in bronze, brass, aluminum, and nickel. Six styles of National Register markers. Custom casting; free brochure. **La Haye Bronze Architectural**

8730. Historic Markers & Castings — Many patterns and styles to choose from in cast aluminum and cast bronze. Also, custom ornamental castings. Free literature. **Lake Shore Industries**

5390. Architectural Mantels — French tradition, from Gothic to contemporary. Products include fountains, columns, moldings, benches, etc. Free brochure. **Limestone Concept**

53. Mailboxes & Exterior Lighting — Large selection of cast-aluminum mailboxes, mailbox posts, lanterns, street lighting, and light posts. Free brochure. **Mel Northey Company**

370. Pigeon Control — Get rid of bird pests with inconspicuous stainless-steel needles that eliminate roosts — without harming the building. Humane and practical. Free flyer. **Nixalite**

282. Cast Stone Mantels — New line of fireplace mantels; technical assistance for installations. **Old World Stoneworks**

268. Fender Seats — Importer of English fender seats that surround the fireplace, available with leather or upholstered seats. **Rockingham Fender**

460. Historic Markers — Historic markers in sand-cast bronze or aluminum. Also, anodized-aluminum markers with image permanently embedded in bronze or pewter finish. Custom work. Free catalog. **Smith-Cornell**

9067. Cast-Stone Mantels — That look and feel like cut limestone. Free brochure. **Stone Magic Mfg.**

9430. Cast-Aluminum Products — Outdoor furniture and lighting, gate and fence components, urns, and mailboxes. Free brochure. **Texas Metal Industries, Inc.**

5590. Period Style Mantels — Stock and custom sizes and designs. Carved ornaments. Free brochure. **Wohner's**

441. Kitchen Design & Cabinetry — Custom kitchen design and fabrication; styles include Arts & Crafts and contemporary work. **Corsi Cabinet Co.**

DIV. 12 FURNISHINGS/ARTWORK

1076. Figurative Sculpture — Representational sculpture, specializing in the human form. **Archer Design**

1502. Public Art — Venetian mosaics, murals, and artworks. Specializes in liturgical and public art projects. **Architectural Features**

1009. Carved Architectural Elements — Can replicate carving and sculpture, garden elements in any material and size. Free brochure. **B & H Art in Architecture, Ltd.**

721. Carving & Casting — Architectural ornament carved in limestone, marble, or wood. Also, rubber moldmaking and casting in resin or plaster of architectural elements. Free brochure. **DiLeo Studio**

478. Bronze Sculpture — Figurative bronze sculpture, from large public art projects to small busts. **Figurative Art Studio**

183. Mosaics — Glass, porcelain, and glazed tiles; ceramic murals; wall, floor, and pool mosaic projects; period and contemporary. **Fishman Mosaics**

6390. Restoration — Studio specializes in conservation and restoration of architectural elements, sculpture, and fine art. Custom moldings. Free brochure. **Freedman Studios**

2520. Wrought-Iron Furniture — And lighting: chairs, tables, chandeliers, and other fixtures. Free brochure. **Gaby's Shoppe**

185. Bronze Sculptor — Public and private commissions; monuments, garden sculpture, bas reliefs, architectural elements, and fountains. **Gareth Curtiss, Sculptor**

187. Bronze & Stone Sculpture — Cast and carved sculpture in cast bronze, cast aluminum, carved limestone, marble, granite, and more; sculptor works in the classical tradition. **Gerald Siciliano**

698. Figurative Sculpture — Reproductions taken from molds of 19th-century European masterpieces. Free brochure. **Giust Gallery**

264. Stained Glass Windows & Domes — Stained glass patterning, fabrication, shipping, and installation; dome capabilities include compound-curved, faceted flat-panel, and barrel vault designs. **Jancik Arts International**

764. Bronze Garden Figures — Allegorical figures in bronze; also, commissioned works, including portrait busts and monuments. **Tuck Langland**

5230. Sculptor — Figurative sculptor and portrait artist whose themes have included classical and Renaissance work, and monumental works. **LeQuire, Alan**

1034. Ornament & Sculpture — Firm designs interior and exterior artwork in metal, wood, and a variety of other materials. **LepoWorks, Inc.**

715. Garden Sculpture & Fountains — Sculpture studio incorporates figurative work into benches and water features. Free brochure. **MacQueen Sculpture**

753. Sculpture Studio — Figurative bronze sculpture, including birds and animals. Free brochure. **Maxwell Art Studio**

1810. Sculpture Foundry — Investment and sand casting, mold-making, retouching, finishing, mounting, reproductions, restoration, and maintenance services. Free brochure. **Modern Art Foundry**

726. Western Style — Casework and furnishings in the Western style for high-end residential, commercial, and contract furnishing markets. **New West Furniture**

763. Bronze Sculpture — Figurative bronze sculpture; commissioned work, also. Free flyers. **Sculpture Works**

6480. Decorative Overlay for Glass — Can be applied to safety glass, mirrors, and all types of glass to create a stained glass effect. Free brochure. **Stained Glass Overlay, Inc.**

Decorative Painting — Studio uses all decorative painting techniques; most finishes available on canvas. Works primarily in the tri-state area. Call: 914-698-1684. **Westman Decorative Painting**

2910. Wine Racks & Cellars — Custom work for hotels, restaurants, and custom homes. Free brochure. **Wine Racks Unlimited**

DIVISION 14 ELEVATORS/LIFTS

3250. Hydraulic Elevator Systems — Custom design, manufacture, and installation for residential applications. Free brochure. **CemcoLift/LGIS America, Inc.**

4430. Manual Dumbwaiter Kit — For assembly on site. Capacities range from 75 to 500 lbs. Also, handicap elevators and wheelchair lifts. Free brochure. **Gillespie Corp.**

DIVISION 15 PLUMBING

5860. Victorian Hardware — Turn-of-the-century door hardware and brass bathroom fixtures and accessories. Free catalog. **Bathroom Machineries**

2430. Period Plumbing Fixtures — Reproduction pedestal basins, kitchen and bath faucets, and more. Free brochure. **Baths From The Past**

3760. Hardware & Bath Accessories — Tubs, toilets, bidets, faucets, and other reproduction period hardware and plumbing accessories. Free brochure. **Kolson, Inc.**

708. Wood Registers — Wide variety of wall and floor registers; rimmed and flush-mount styles. Custom sizes available. Free brochure. **Ridgefield Industries Co.**

DIVISION 16 ELECTRIC

733. Garden Lights — Arts & Crafts-influenced, solid brass lighting. Custom work a specialty. **Arroyo Craftsman**

517. Lighting Restoration — Antique fixtures restored; retrofitting with more energy-efficient bulbs. Also, lighting design and fabrication. **Aurora Lampworks**

7660. Historic Lighting — Vast selection of highest quality lighting reproductions, from 18th through early-20th century: residential, commercial, and institutional. Standard and custom designs. Free catalog. **Ball & Ball**

772. Copper Lanterns — Handmade gas and electric lanterns in historical styles. Free brochure. **Charleston Lighting & Mfg., Inc.**

620. Ceiling Fixtures — Solid brass ceiling fixture with hemispherical frosted glass globe looks like period Art Deco light. Also in polished chrome. Custom work. **Conant Custom Brass Lighting**

Copper and Brass Lighting — Lighting for interior & exterior, including sconces in Leadtex for the tin look in old designs. Copper weathervanes and cupolas also available. Call 800-281-9798. **Copper House**

424. Electric & Gas Lighting — Elegant historically-styled lighting for interiors and exteriors. Original designs and historic reproductions. **Faubourg Lighting**

9130. Lighting Fixtures & Accessories — Manufacturer of cast light fixtures, posts, bollards, street furniture, antique fence posts, and street clocks. Custom sand casting. Free brochure. **Herwig Lighting**

680. Lighting Fixtures — Interior and exterior fixtures including post lights, lanterns, and garden lighting in cast aluminum, wrought iron, and brass. Free brochure. **Hinkley Lighting**

401. Hand-Wrought Interior Accessories — Artist's designs are inspired by many cultures and periods, including Mediterranean styles. Hand-wrought soft copper is aged and finished with earthy patinas. **Joseph Franklin Interior Accessories**

198. Landscape Lighting — Exterior lighting, many Arts & Crafts influenced styles. **Laguna Lightcraft**

5090. Reproduction Lighting — Colonial reproduction light fixtures in copper, brass, tin, and iron. Post lanterns, wall lanterns, chandeliers, and candlestands. Custom work. Free brochure. **Lighting by Hammerworks**

722. Commercial Street Lighting — Solid copper and brass lighting; HID, metal halide, high-pressure sodium, and other lighting options. Free brochure. **Metal Specialties Co. of Boston**

5030. Arts & Crafts Fixtures — Custom-designed sconces, lamps, and chandeliers in hammered copper and mica. Residential and commercial. Free brochure. **Ashford Lighting & Furnishings**

3900. Hand-Forged Lighting — Art Nouveau, Art Deco, and Southwestern themes a specialty; lighting forged in iron, brass, and copper. Free brochure. **New Blue Moon Studios**

5380. Historic Lighting — Interior and exterior lighting in solid brass and bronze, in all traditional styles. Free brochure. **New York Gas Lighting Co.**

800. Lanterns & Sconces — Large selection of Early American lanterns, sconces, and chandeliers for indoor and outdoor use. Constructed from solid copper and brass. Catalog free to professionals. **Newstamp Lighting**

439. Decorative Lighting — Lanterns, sconces, and chandeliers in a wide range of historical styles. **Norwell Mfg.**

1045. Glass Lighting Shades — Wide range of shapes and styles of glass shades imported from France. Also works on custom projects. **Otteson Co.**

7530. Traditional Lighting — Brass fixtures handcrafted in classical and Arts & Crafts styles. Free brochure. **Palmer Hargrave Lamps**

301. Designs in 17th-19th Cen. Designs — Handmade chandeliers, sconces, and lanterns in styles from the 17th, 18th, and 19th centuries. **Period Lighting Fixtures Inc.**

940. Transitional Lighting — Designers and manufacturers of decorative lighting fixtures, many evoking Prairie, Mission, and Arts & Crafts styles. Commercial and residential, interior and exterior. **Frederick Ramond**

7630. Victorian & Craftsman Lighting — Reproduction chandeliers & sconces appropriate for residential, commercial, or government interiors. Historically accurate; solid brass or cast iron. Free brochure. **Rejuvenation Lamp & Fixture**

430. Vintage Lighting — Victorian and Turn-of-the-Century chandeliers and sconces: Gas, oil, and electric. Antique and reproduction fixtures; replacement parts and glass shades. Free catalog. **Roy Electric**

497. Period Street Lighting — Luminaires in contemporary and period styles; cast iron and cast aluminum posts. **Sentry Electric Corp.**

6190. Period Lighting — Authentic handcrafted brass reproduction ceiling fixtures, sconces, and lamps. Gas, electric, and combination fixtures from 1880 to 1930. Custom work. Free catalog. **St. Louis Antique Lighting Co.**

2990. New Old Lighting — A new line of reproduction lighting fixtures includes wall-mounted torchieres, ceiling fixtures, and Turn-of-the-Century sconces. Free brochure. **Urban Archaeology**

3730. Victorian Lighting Fixtures — Authentic reproduction Victorian and Turn-of-the-Century electric and gas chandeliers and wall brackets. Variety of glass shades. Catalog free. **Victorian Lighting Works**

316. Belt-Driven Ceiling Fans — Hand cast ceiling fan designs with wooden blades; designs include a belt-driven model and classic two-blade design. **Woolen Mill Fan Co.**

DIV. 17 ARCHITECTURAL ANTIQUES

718. Architectural Antiques — Gates, fencing, fountains, urns, statuary and more. **Aardvark Antiques**

101. Timber Frames & Log Houses — Specialist in antique structures dismantles and re-erects antique frames and converts them to any use, employing antique materials throughout. **Antique Woods & Colonial Restoration**

8000. Antique Flooring & Beams — Chestnut, oak, and pine from resawn material; flooring, beams, paneling, molding, and wainscoting. **Authentic Wood Floors, Inc.**

3950. Antique Building Materials — Old floor boards, barn boards, antique glass, hardware, doors, and hand-hewn logs. Boards 4 to 16 in. Old log houses. Free brochure. **Sylvan Brandt**

3180. Farmhouses, Barns & Carriage Houses — Company has a supply of dismantled antique timberframe buildings. Structural restoration and frame altering with traditional joinery. **Brandy Hollow Restorations**

410. Chimney Pots — Antique chimney pots in English and American styles: terra cotta, glazed, and unglazed. Free brochure. **Chimney Pot Shoppe**

112. Resawn Planks & Beams — Flooring, paneling, and custom millwork from recycled timbers, shipped nationwide. **Duluth Timber Co.**

4310. Antique Hardware — Supplies original curtain tiebacks, door knockers, door hardware, furniture hardware, and twist bells. Free brochure. **Eugenia's Antique Hardware**

1330. Antique Heart Pine & Cypress — River-recovered logs newly sawn for custom flooring, moldings, paneling, and wainscoting. Free brochure. **Goodwin Heart Pine**

3270. Auction House & Retail Store — Ever-changing inventory of architectural and landscape antiques, and objets d'art. Free brochure. **Great Gatsby's**

3460. Heart Pine Specialists — Several species, longleaf heart pine a specialty; flooring, millwork, moldings, registers, and more. Free brochure. **Harvey Millwork**

564. Salvaged Wood — Source for antique and salvaged wood: pine, ash, oak, poplar, and hemlock for flooring, siding, and wainscoting. **Longwood Restoration**

568. French Architectural Salvage — Supplier of antique French building materials. **Normandy Imports**

494. Antique Columns — Columns in onyx, bronze, iron, wood; granite columns with marble capitals from late 19th century; many other architectural antiques. **Olde Good Things**

569. Recycled Wood — Salvaged and recycled wood from old barns and outbuildings used to make flooring, wall paneling, and beams. **Patina Woods Co.**

6370. Heart Pine & Douglas Fir — Salvaged timbers in heart pine and Douglas fir, for trim, timbers, and board stock. Pioneer Millworks

539. Antique Wood — Heart pine and cypress, reclaimed from Southern river bottoms, used to make custom-molded flooring, paneling, trim, furniture. **Riverwood Heart Pine Co.** ■

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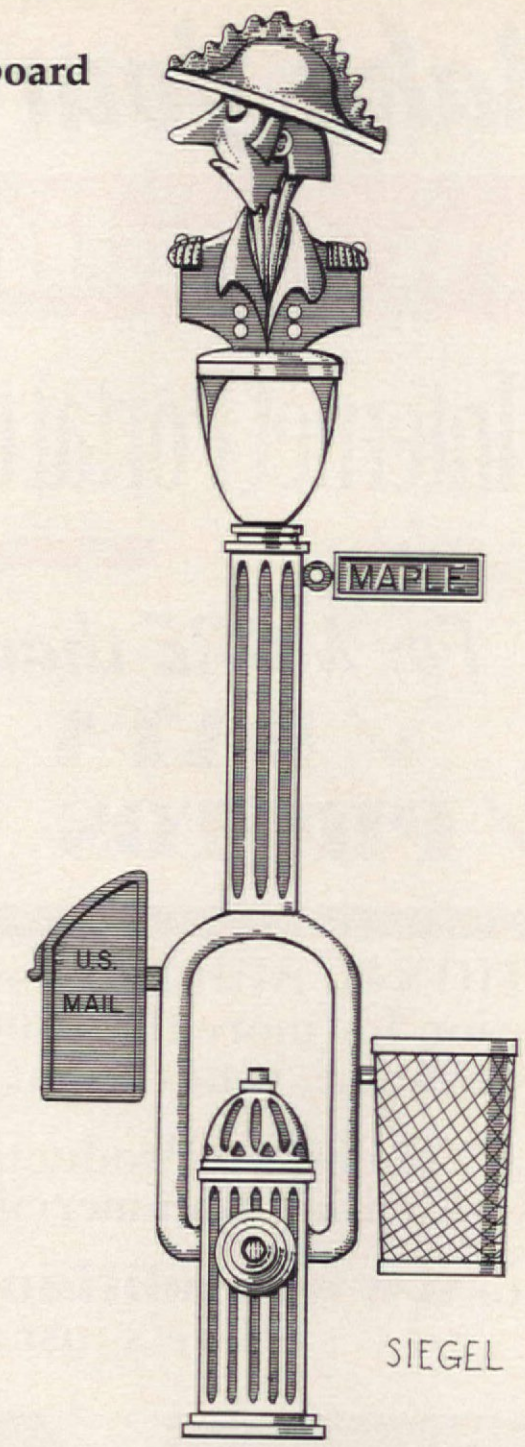

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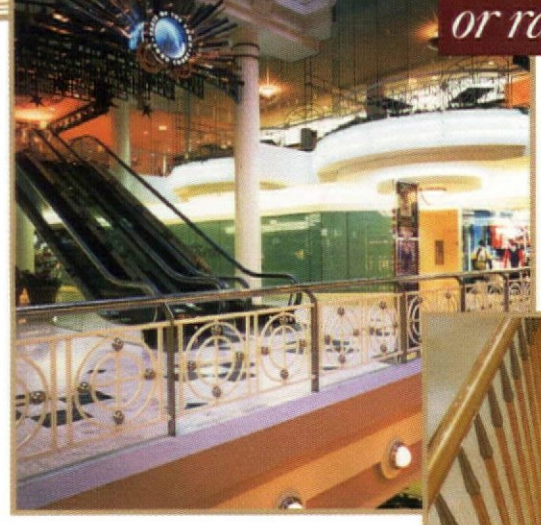

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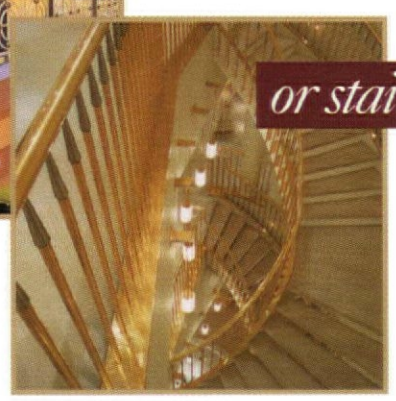

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▲ W429-003 11 x 25 copper or brass hanging lantern.

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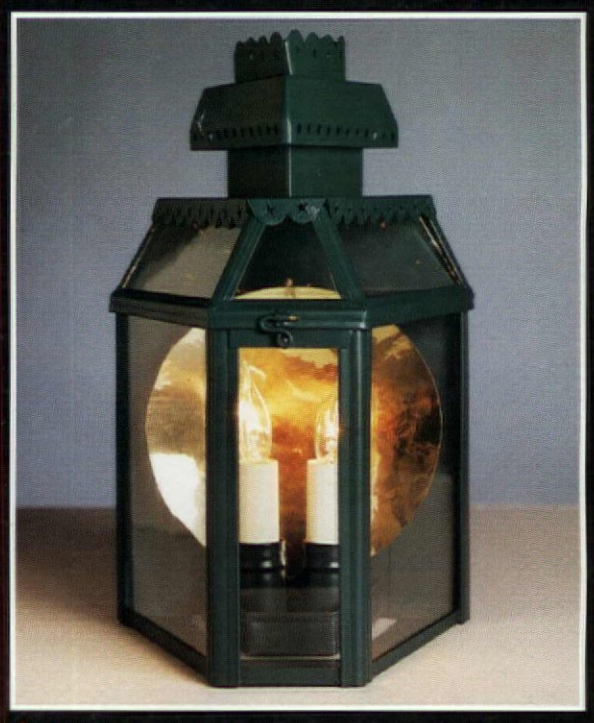
▲ W141-ES5 22 x 17 brass chandelier with shades.



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